VMD0204030A3

Service Manual

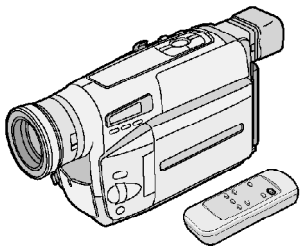
VHS-C Movie

Simplified

NV-VZ14EN / NV-VZ14ENS / NV-VZ15EMM / NV-VZ15A / NV-VZ15EM / NV-VZ15ENC / NV-VZ15ENS / NV-VZ55EM / NV-VZ55ENC / NV-VZ55ENS / NV-VZ55EN

Z12-MECHANISM

Panasonic VHSC PAL



SPECIFICATIONS

ITEM	SPECIFICATION	ITEM	SPECIFICATION
POWER	Source: Battery ; 7.2V DC AC Adaptor ; 11.0V DC Consumption (Battery Operation): 3.4 W (NV-VZ14/VZ15) 3.5 W (NV-VZ55) (When using finder) 4.6 W (NV-VZ14/VZ15) 4.7 W (NV-VZ55) (When using LCD Monitor)	MONITOR	2.5-inch Colour LCD Monitor
		FINDER	0.24-inch Electronic Finder
		STANDARD ILLUMINATION	1,400 lx
		OPERATING TEMPERATURE	0˚C-40˚C
		OPERATING HUMIDITY	10%-80%
		WEIGHT	Approx. 900 g (without Battery)
TAPE FORMAT	VHS-C Cassette	DIMENSIONS	Approx. 88 (W) X 118 (H) X 241 (D) mm
RECORDING/ PLAYBACK TIME	LP ; 2 hour with EC60	AC ADAPTOR	Power Source: AC 110-240 V, 50/60 Hz Power Consumption: 14W DC Output: DC 11.0 V, 1.0 A Weight: Approx. 140 g (without AC Mains Lead) Dimensions: Approx. 60 (W) X 32 (H) X 97 (D) mm
VIDEO	Television system: CCIR; 625 lines, 50 fields PAL colour signal Output level: VIDEO OUT (PHONO); 1.0Vp-p, 75 Ω terminated		
AUDIO	Output level/Impedance: AUDIO OUT (PHONO) -6 dBV (47k Ω loaded)/less than 1k Ω Audio Track: 1 track (Normal-Monaural)	STANDARD ACCESSORIES	AC Adaptor AC Mains Lead Battery Cassette Adaptor and Battery Shoulder Strap Remote Controller and Batteries for Remote Controller (except NV-VZ14) Lens Cap Personal Computer Connection Kit (NV-VZ55 only)
CAMERA	Image sensor: 1/6 inch CCD image sensor Lens: 18:1 Power Zoom Lens (Optical capability) F1.8 Forcal Length; 3.1-55.8mm Digital AI Auto Focus/Auto Iris Finder diameter; 37mm		

Weight and dimensions are approximate.
Specifications are subject to change without notice.

Panasonic

1. INTORODUCTION

Service Manual for NV-VZ14/VZ15/VZ55PAL has already issued and this sevice manual is mentioned only differences.
Original Service Manual is NV-VZ14EG/EGE/EGM, VZ15B/EG/EGE/EGM/EN, VZ55EG/EGM.
Order No.VMD0201004C8

2. REPLACEMENT PARTS LIST (COMPARISON LIST)

2.1. FRAME & CASING SECTION PARTS LIST

FINAL ASSEMBLY <M2>

⚠	REF. NO.	ITEM	NV-VZ14EG	NV-VZ14EN	NV-VZ14E
	103	STICKER (LCD)	LY32732-001A	LY32732-002A	←

⚠	REF. NO.	ITEM	NV-VZ15EG	NV-VZ15A	NV-VZ15EM	NV-VZ15ENC	NV-VZ15ENS	V
	103	STICKER (LCD)	LY32732-003A	LY32732-004A	←	←	←	

⚠	REF. NO.	ITEM	NV-VZ55EG	NV-VZ55EM	NV-VZ55ENC	NV-VZ55ENS	NV-
	103	STICKER (LCD)	LY32732-005A	LY32732-006A	←	←	

2.2. MONITOR SECTION PARTS LIST

MONITOR ASSEMBLY <M5>

⚠	REF. NO.	ITEM	NV-VZ14EG	NV-VZ14EN	NV-VZ14E
	500	MONITOR ASSY	LY20837-001A	LY20837-005A	←
	501	MONITOR COVER ASSY	LY20821-002A	LY20821-003A	←
	501B	STICKER (PANA.M)	LY43558-001A	LY43558-002A	←

⚠	REF. NO.	ITEM	NV-VZ15EG	NV-VZ15A	NV-VZ15EM	NV-VZ15ENC	NV-VZ15ENS	NV-
	500	MONITOR ASSY	LY20837-006A	LY20837-007A	←	←	←	
	501	MONITOR COVER ASSY	LY20821-005A	LY20821-006A	←	←	←	
	501B	STICKER (PANA.M)	LY43558-004A	LY43558-005A	←	←	←	

⚠	REF. NO.	ITEM	NV-VZ55EG	NV-VZ55EM	NV-VZ55ENC	NV-VZ55ENS	NV-
	500	MONITOR ASSY	LY20837-002A	LY20837-008A	←	←	
	501	MONITOR COVER ASSY	LY20821-001B	LY20821-007A	←	←	
	501B	STICKER (PANA.M)	LY43558-006A	LY43558-007A	←	←	

2.3. PACKING PARTS & ACCESSORIES SECTION PARTS LIST

PACKING AND ACCESSORY ASSEMBLY <M1>

⚠	REF. NO.	ITEM	NV-VZ14EG	NV-VZ14EN	NV-VZ14E
	1	PACKING CASE	LY32403-001A	LY32590-005A	←
⚠	5A	INST BOOK	LYT0887-001A	LYT0885-001A	←
	10	CABLE ASSY	PEAC0362-150	NIL	NIL
⚠	11	AC ADAPTER	LY20847-005B	LY20872-006A	←

⚠	REF. NO.	ITEM	NV-VZ15EG	NV-VZ15A	NV-VZ15EM	NV-VZ15ENC	NV-VZ15ENS	NV-
	1	PACKING CASE	LY32403-009A	LY32590-003A	←	←	←	
⚠	5A	INST BOOK	LYT0887-001A	LYT0885-001A	←	←	←	
	10	CABLE ASSY	PEAC0362-150	NIL	NIL	NIL	NIL	
⚠	11	AC ADAPTER	LY20847-005B	*LY20872-005A	LY20872-006A	←	←	
⚠	12	POWER CORD	QMP120-190	QMPH020-190	QMPL120-190	QMPS120-190	QMPL120-190	QMI

⚠	REF. NO.	ITEM	NV-VZ55EG	NV-VZ55EM	NV-VZ55ENC	NV-VZ55ENS	NV-
	1	PACKING CASE	LY32403-005A	LY32590-015A	←	←	
⚠	5A	INST BOOK	LYT0879-001A	LYT0876-001A	←	←	
	5D	INST BOOK (SOFT GE)	LYT0945-002A	NIL	NIL	NIL	
		INST BOOK (SOFT FR)	LYT0945-003A	NIL	NIL	NIL	
		INST BOOK (SOFT DU)	LYT0945-004A	NIL	NIL	NIL	
		INST BOOK (SOFT IT)	LYT0945-006A	NIL	NIL	NIL	
		INST BOOK (SOFT EN)	NIL	LYT0945-001A	←	←	
		INST BOOK (SOFT CH)	NIL	LYT0945-007A	←	←	

⚠	REF. NO.	ITEM	NV-VZ55EG	NV-VZ55EM	NV-VZ55ENC	NV-VZ55ENS	NV-
		INST BOOK (SOFT RU)	NIL	LYT0945-008A	←	←	
		INST BOOK (SOFT AR)	NIL	LYT0945-009A	←	←	
	10	CABLE ASSY	PEAC0362-150	NIL	NIL	NIL	PEAC(
⚠	11	AC ADAPTER	LY20847-005B	LY20872-006A	LY20847-006B	LY20872-006A	
⚠	12	POWER CORD	QMPL120-190	←	QMPS120-190	QMPL120-190	QMPL

ORDER NO. VMD0201004C8

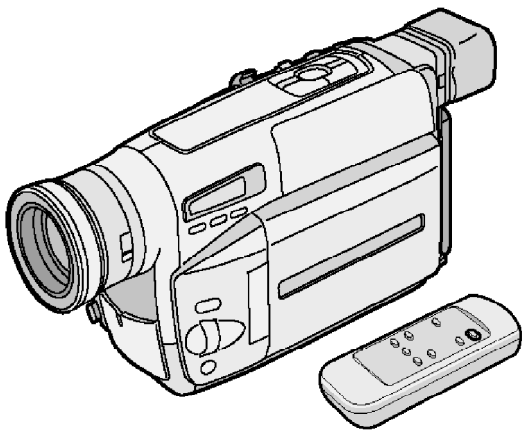
Service Manual

VHS-C Movie

Panasonic VHSC PAL

NV-VZ14EG / NV-VZ14EGE / NV-VZ14EGM / NV-VZ15B / NV-VZ15EG / NV-VZ15EGE / NV-VZ15EGM / NV-VZ15EN / NV-VZ55EG / NV-VZ55EGM

Z12-MECHANISM



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Panasonic

1. INTRODUCTION

1.1. INTRODUCTION

This service manual contains technical information which will be allowed service personnel's to understand and service this model.
Please use part number on the parts list to make order for spare part and do not use reference number on the drawing.
If the circuit is changed or modified, this information will be followed by supplement service manual.

Note 1:
The service manual for Mechanism-Chassis is separated as another one.
Please refer to the following manual for detail of adjustment procedure for Mechanism-Chassis.
Order number for service manual of Mechanism-Chassis : VMD0201001C8

Note 2:
The service manual for battery charger is separated as another one.

Please refer to the following manual Order number for battery charger.
VW-BCV1E/B/A VSK0162 : VMD0112029C8

1.2. FEATURE COMPARISON CHART

		NV-VZ14	NV-VZ15	NV-VZ55
		EG/EGE/EGM	B/EG/EGE/EGM/ EN	EG/EGM
CCD	CCD IMAGE SENSOR	1/6"	1/6"	1/6"
	CCD Capacity (Pixels)	350k(500H)	350k(500H)	350k(500H)
LCD MONITOR	Color LCD Monitor	2.5"	2.5"	2.5"
	LCD Capacity (Pixels)	112k	112k	112k
B/W-EVF	B/W EVF LCD Monitor	0.24"	0.24"	0.24"
	EVF LCD Capacity (Pixels)	76k	76k	76k
SPEED	Recording/Playback mode	SP/LP	SP/LP	SP/LP
LENS	Optical Zoom Ratio	x18	x18	x18
DIGITAL ZOOM	ZOOM	x700	x700	x700
Battery Charge		Using Mainbody	Using Mainbody	Using Mainbody
ACCESSORY	Remote controller	----	O	O

2. CAUTION FOR AC CORD (VJA0940 TYPE)

2.1. INFORMATION FOR YOUR SAFETY

IMPORTANT
Your attention is drawn to the fact that recording of pre-recorded tapes or discs or other published or broadcast material may infringe copyright laws.

WARNING

To reduce the risk of fire or shock hazard, do not expose this equipment to rain or moisture.

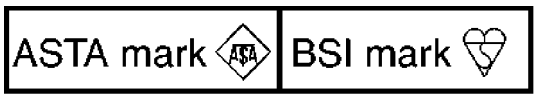
CAUTION

To reduce the risk of fire or shock hazard and annoying interference, use the recommended accessories only.

FOR YOUR SAFETY
DO NOT REMOVE THE OUTER COVER
To prevent electric shock, do not remove the cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

2.2. CAUTION FOR AC MAINS LEAD

For your safety, please read the following text carefully.
This appliance is supplied with a moulded three-pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5 amperes and it is approved by ASTA or BSI to BS1362
Check for the ASRA mark or the BSI mark on the body of the fuse.



If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover, the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local Panasonic Dealer.
If the fitted moulded plug is unsuitable for the socket outlet in your home then the fuse should be removed and the plug cut off and disposed of safety.
There is a danger of severe electrical shock if the cut off plug is inserted into any 13-ampere socket.
If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt, please consult a qualified electrician.

2.2.1. Important

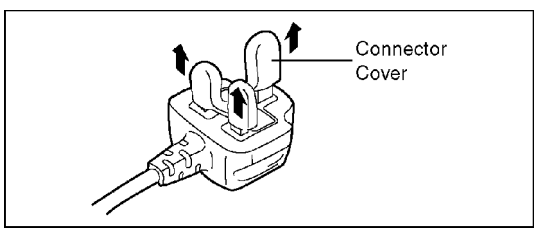
The wires in this mains lead are coloured in accordance with the following code:

Blue	**Neutral**
Brown	**Live**

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.
The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.
Under no circumstances should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol.

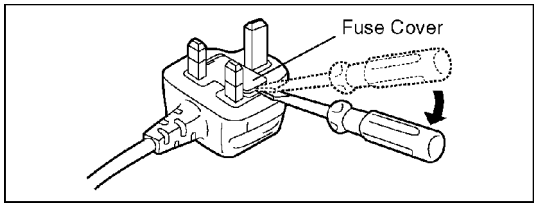
2.2.2. Before use

remove the Connector Cover as follows.

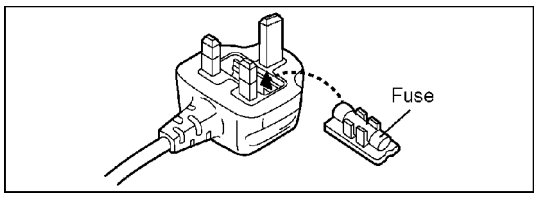


2.2.3. How to replace the Fuse

1. Remove the Fuse Cover with a screwdriver.



2. Replace the fuse and attach the Fuse cover.



3. SERVICE CAUTION

3.1. SERVICE EXTENSION CABLES

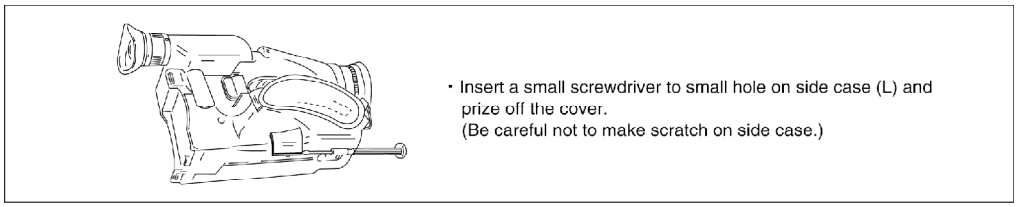
This model is required the following extension cables for all connections.

No.	Parts No.	Pin	Part name	Connection	Q'ty	R
/ 1	VFK1738A1025 / & / VFK1737A10CB	/ 10	/ Flat Cable & Extention Board	/ CN1-Drum Motor	/ 1	/ N
/ 2	VFK1738A1025 / & / VFK1737A10CB	/ 10	/ Flat Cable & Extention Board	/ CN9031-Front	/ 1	/ N
/ 3	VFK1738A1425 / & / VFK1737A14CB	/ 14	/ Flat Cable & Extention Board	/ CN2-Sensor	/ 1	/ N
/ 4	VFK1738A1425 / & / VFK1737A14CB	/ 14	/ Flat Cable & Extention Board	/ CN22-CCD	/ 1	/ N
/ 5	VFK1738A1825 / & / VFK1737A18CB	/ 18	/ Flat Cable & Extention Board	/ CN3-Capstan Motor	/ 1	/ N
6	VFK1739	2	Wire Cable	CN4-Loading Motor	1	Ne
7	VFK1739	2	Wire Cable	CN8-Mic	1	Ne
8	VFK1739	2	Wire Cable	CN27-Speaker	1	Ne
/ 9	VFK1738A1125 / & / VFK1737A11CB	/ 11	/ Flat Cable & Extention Board	/ CN5-Video Head	/ 1	/ N
/ 10	VFK1738A1125 / & / VFK1737A11CB	/ 11	/ Flat Cable & Extention Board	/ CN7-AC Head	/ 1	/ N
/ 11	VFK1738A2225 / & / VFK1737A22CB	/ 22	/ Flat Cable & Extention Board	/ CN15-Lens	/ 1	/ N

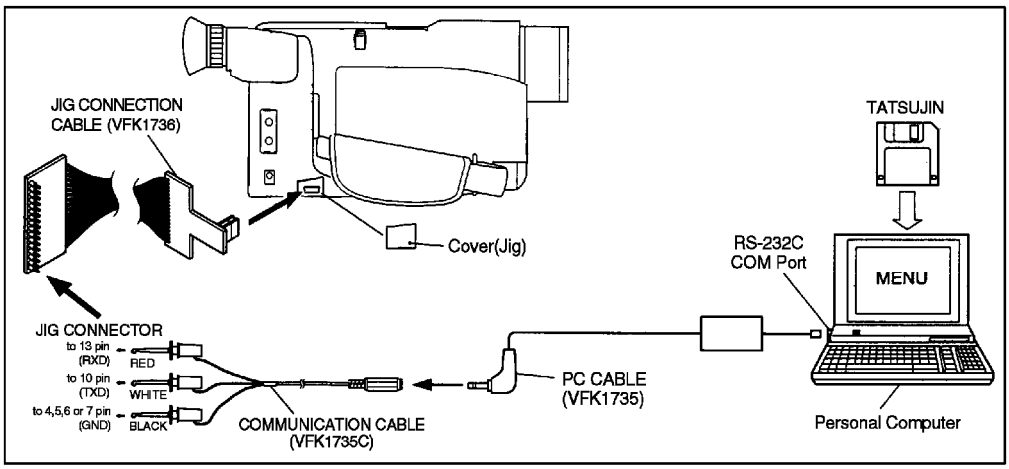
No.	Parts No.	Pin	Part name	Connection	Q'ty	R
/ 12	VFK1738A2025 / & / VFK1737A20CB	/ 20	/ Flat Cable & Extention Board	/ CN9012-EVF B/W	/ 1	/ N
/ 13	VFK1738A1625 / & / VFK1737A16CB	/ 16	/ Flat Cable & Extention Board	/ CN9013-Top Operation at Side case(L)	/ 1	/ N
/ 14	VFK1738A1325 / & / VFK1737A13CB	/ 13	/ Flat Cable & Extention Board	/ CN9018-Side Operation at Side case(R)	/ 1	/ N

3.2. SET-UP FOR ADJUSTMENT OF TATSUJIN

For adjustment of " TATSUJIN ", please open the small cover which is located at bottom of side case(L) using small screwdriver as follows.



And then connect the JIG board and TATSUJIN cable as follows.



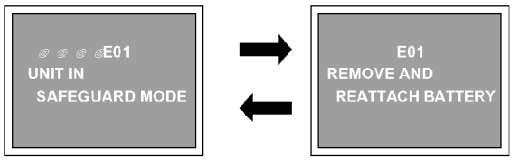
4. SERVICE INFORMATION

4.1. EMAGENCY DISPLAY

Whenever some abnomal signal is input to the mechacon CPU, an error number (E01, as an example) is displayed in the electronic view finder.
In every error status, such the message as shown below alternately appear over and over.

- In an emagency mode, all operations except turning on/off the POWER switch are ineffectual.

Example (in case of the error number E01):



E.VF	Symptom	Mode when observed	Resulting
E07	Short circuit of capstan MDA	Power ON	Power C
E06	CAPSTAN FG input absent	EDIT	Power C
E04	DRAM FF input absent	DRAM rotation	Power C
E03	SUPPLY REEL FG input absent	REC, PLAY, SERCH, FF	UNLOADING OFF
E02	Mode control motor retates for more than 10 sec / without shift to next mode	UNLOADING	Power C
E01	Mode control motor retates for more than 10 sec / without shift to next mode	LOADING	Power C
E00	Overtime the programming transaction	REC, PLAY	Power C

4.2. INSERTING THE BUTTON-TYPE BATTERY

Before setting the data and time, insert the button-type battery (supplied).

1 Open the Side Case (L) Unit.

2 Replace the battery to new one.

- Before inserting or removing the button-type battery, be sure to set the [CAMERA/OFF/VCR] Switch to [OFF].
- When you remove the button-type battery, be careful not to drop it.

- **Keep the button-type battery out of the reach of children.**
- Make sure you insert the battery with its poles correctly aligned.
- The internal clock works even when the Movie Camera is turned off, and it consumes power from the button-type battery.

Note:

The lithium battery is a critical component.
It must never be subjected to excessive heat or discharge.
It must therefore only be fitted in equipment designed specifically for its use.
Replacement batteries must be of the same type and manufacture.
They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.
Do not attempt to re-charge the old battery or re-use it for any other purpose.
It should be disposed of in waste products destined for burial rather than incineration.

(For English)

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacture's instructions.

(For French)

PRECAUTION

Le fait de remplacer incorrectement la pile peut présenter des risques d'explosion.
Remplacer la pile uniquement par une pile identique ou de type équivalent recommandée par le fabricant. Se débarrasser des piles usagées conformément aux instructions du fabricant.

(For German)

VORSICHT

Bei einer falsch eingesetzten Batterie besteht Explosionsgefahr. Nur mit einer vom Hersteller empfohlenen Batterie vom gleichen Typ ersetzen.
Verbrauchte Battrien beim Fachhändler oder einer Sammelstelle für Sonderstoffe abliefern.

(For Swedish)

VARNING

Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattilverkaren.
Kassera använt batteri enligt fabrikantens instruktion.

(For Norwegian)

ADVARSEL!

Lithiumbatteri-Eksplosionsfare ved fejlagtig håndtering.
Udskiftning má kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tibage til leverandøren.

(For Finnish)

VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin.
Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

5. ADJUSTMENT PROCEDURES

5.1. DISASSEMBLY PROCEDURES

Flow-Chart for Disassembly Procedure

No.	Item/Part	Fig.	Removal (Screw)
1	Side Case (L) Unit	Fig.1	3-Screws (A) 1-Screw (A')
		Fig.2	1-Screw (B) 1-Screw (C) 1-Screw (D) 1-Screw (E) 2-Screws (F)
		Fig.3	Locking Tab (a) Slightly open the Side Case (L) Unit. Disconnect CN27 and CN9013.
2	Front Case Unit	Fig.4	3-Locking Tabs (b) Disconnect CN8 and CN9031.
3	Main C.B.A.	Fig.5	2-Screw (G) Disconnect the following connectors.CN1, CN2, CN3, CN4, CN5, CN7, CV15, CN16, CN22, CN9012, CN9013, CN9018
4	Cassette Cover Unit	Fig.6	1-Screw (H)
5	Rear Case Unit	Fig.7	1-Screw (K) 2-Locking Tabs (c)
6	EVF Unit	Fig.8	2-Screws (L)
7	Lens Unit	Fig.9	2-Screws (M)
8	Mechanism Unit	Fig.10	2-Screws (N) 3-Screws (O)
		Fig.11	2-Screws (P) 1-Screws (Q)
9	Main Frame Unit	Fig.6	1-Screw (I) 2-Screws (J)
		Fig.12	7-Locking Tabs (d)

No.	Item/Part	Fig.	Removal (Screw)
10	LCD Unit	Fig.13	Remove the Sheet. 3-Screws (R) 1-Screw (S) 1-Screw (T) 2-Screws (U) Remove the Monitor Assy.
		Fig.14	2-Screws (V) 1-Screw (W) Remove the Monitor Cover. 1-Screw (X) Disconnect CN7603. Remove the Monitor C.B.A., Sheet (Reflect), Light Screen, Lamp, Diffusion Sheet, LCD Frame, LCD Module and Shield Case.
		Fig.14	1-Screw (Y) Remove the Lock Spring and Lock Lever.
11	Back light Unit	Fig.15	Remove the Polarization Sheet. Remove the LCD Terminal Rubber and Fluorescent Lump.

Fig.1

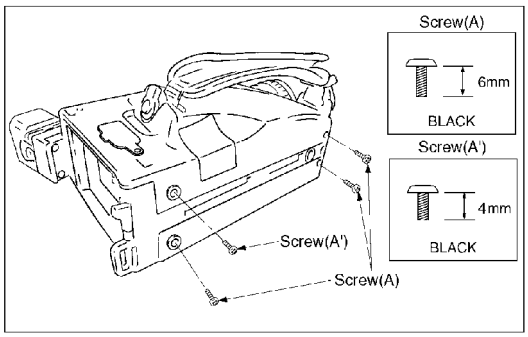


Fig.2

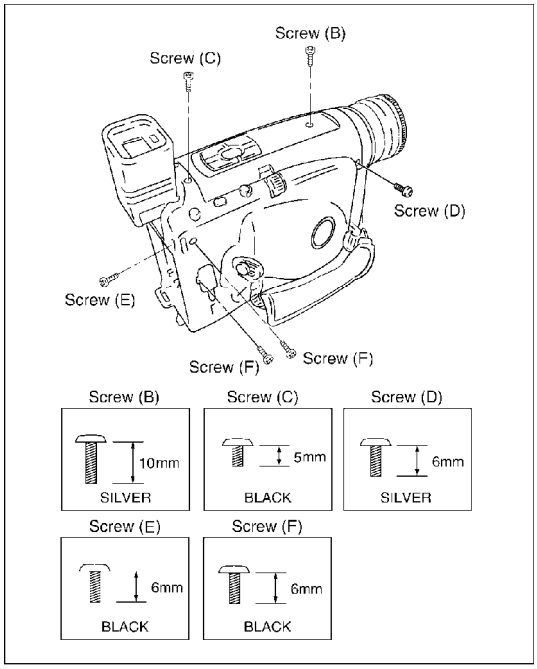


Fig.3

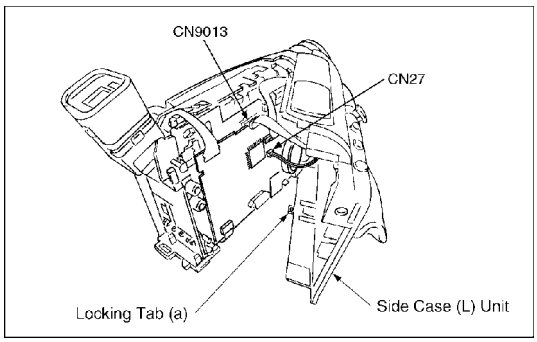


Fig.4

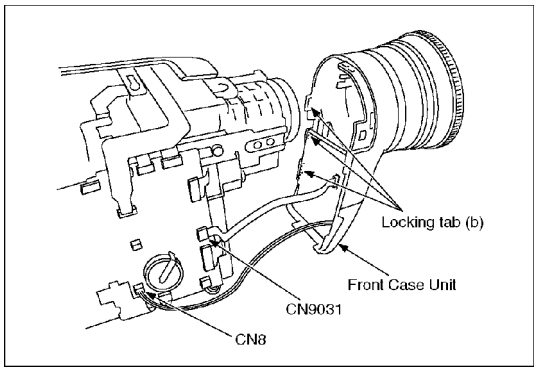


Fig.5

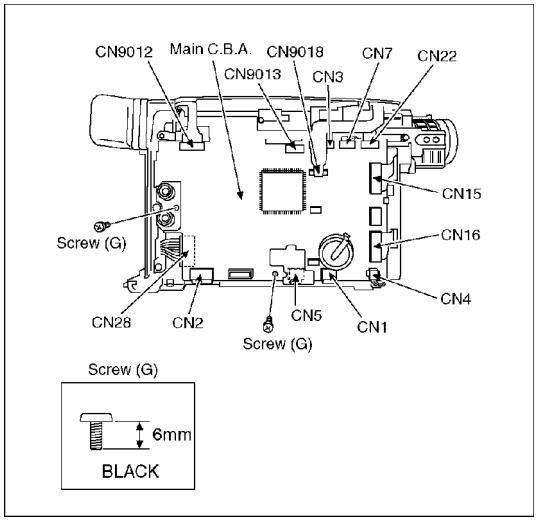


Fig.6

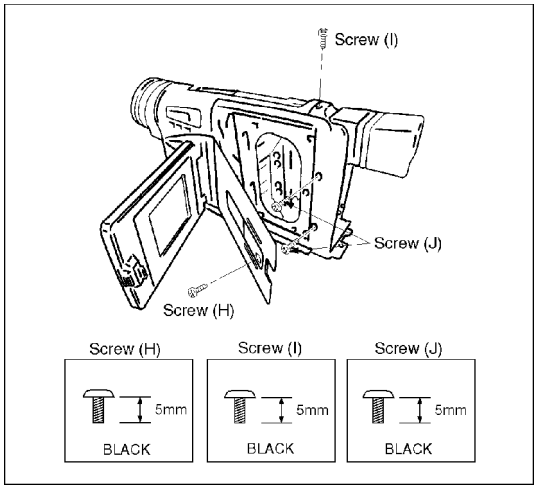


Fig.7

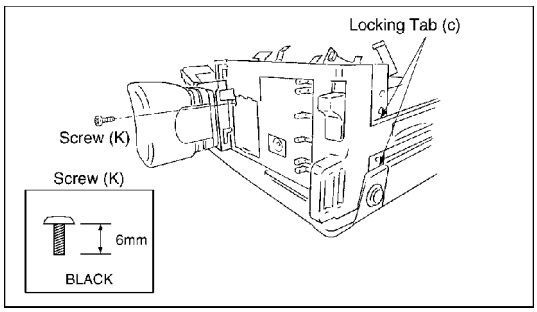


Fig.8

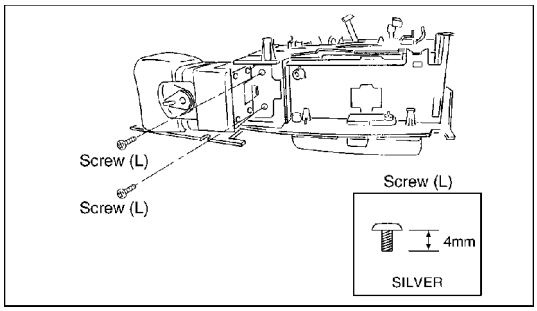


Fig.9

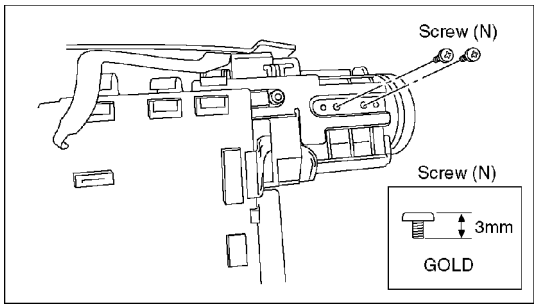


Fig.10

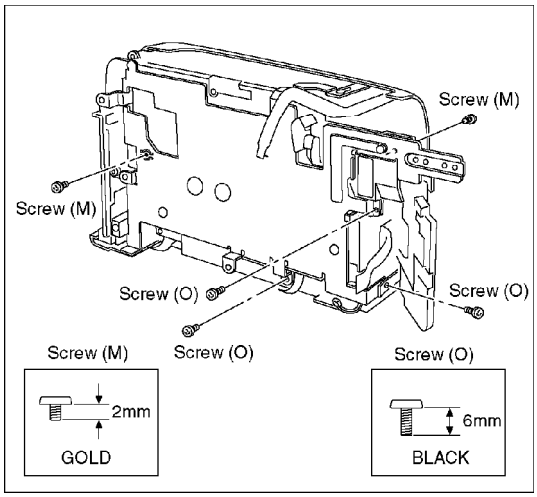


Fig.11

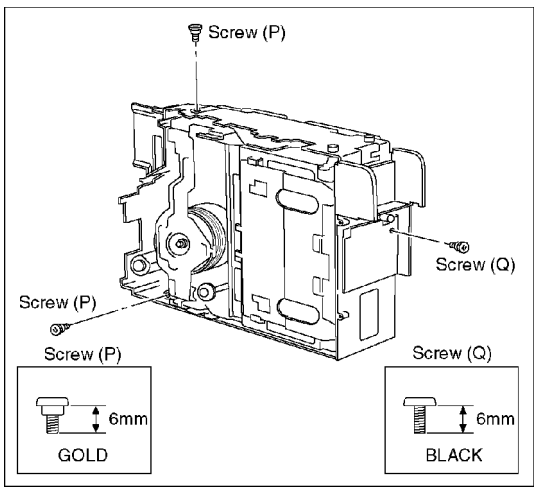


Fig.12

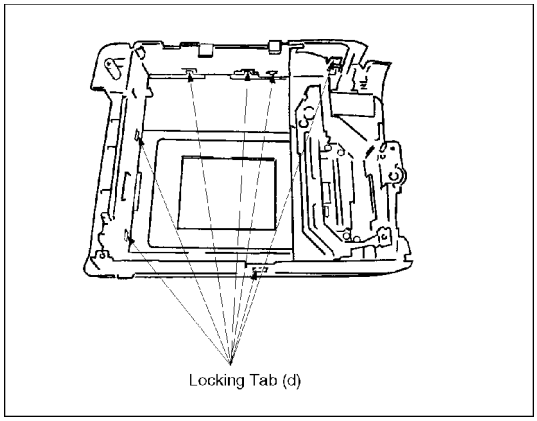

Locking Tab (d)

Fig.13

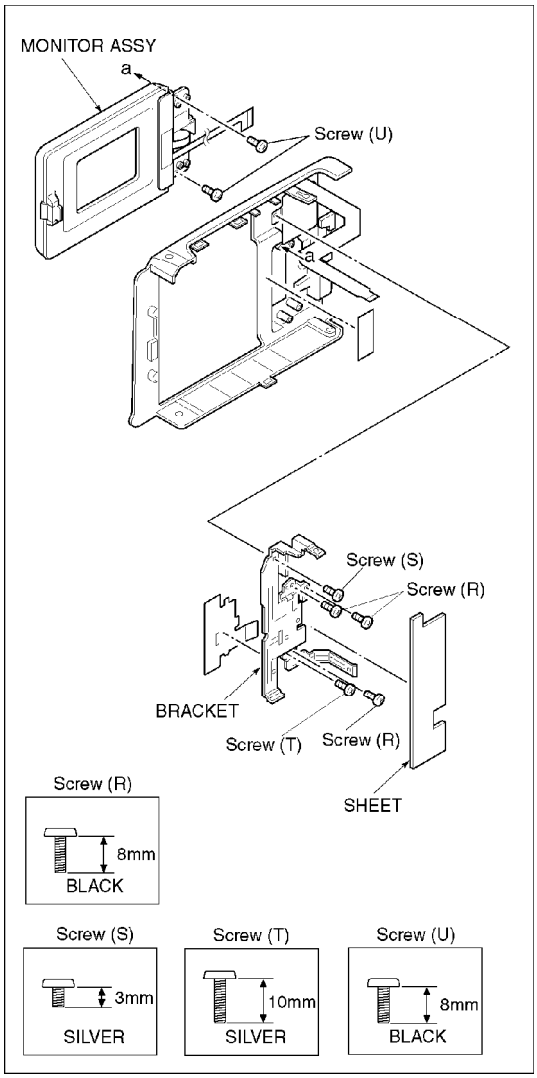

MONITOR ASSY
a
Screw (U)
a
Screw (S)
Screw (R)
BRACKET
Screw (T)
Screw (R)
SHEET
Screw (R)
8mm
BLACK
Screw (S)
3mm
SILVER
Screw (T)
10mm
SILVER
Screw (U)
8mm
BLACK

Fig.14

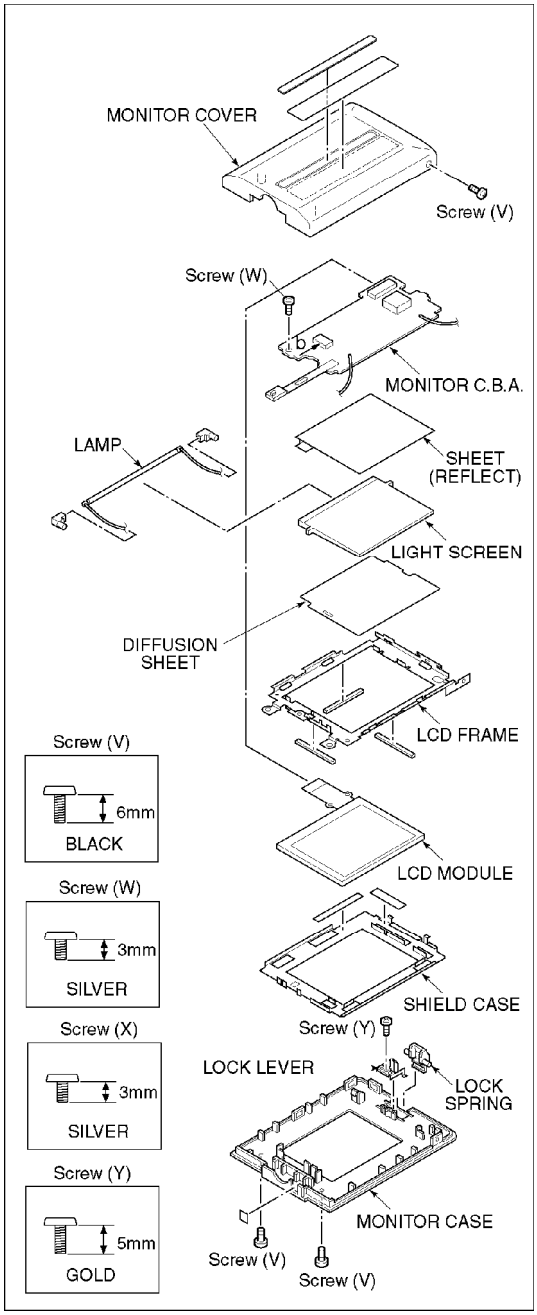
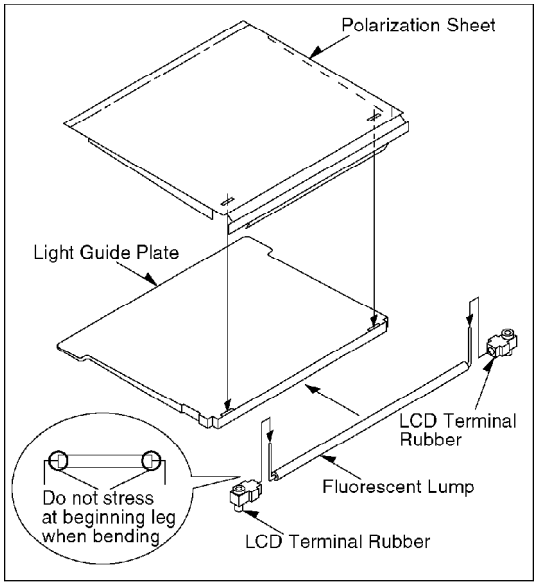

MONITOR COVER
Screw (V)
Screw (W)
MONITOR C.B.A.
LAMP
SHEET
(REFLECT)
LIGHT SCREEN
DIFFUSION
SHEET
LCD FRAME
LCD MODULE
SHIELD CASE
Screw (Y)
LOCK LEVER
LOCK
SPRING
MONITOR CASE
Screw (V)
Screw (V)
Screw (V)
6mm
BLACK
Screw (W)
3mm
SILVER
Screw (X)
3mm
SILVER
Screw (Y)
5mm
GOLD

Fig.15



5.2. DISASSEMBLY PROCEDURES OF LENS UNIT

- The following flowchart describes order or steps for removing the lens units and certain printed circuit boards in order to make access to the item needing service.

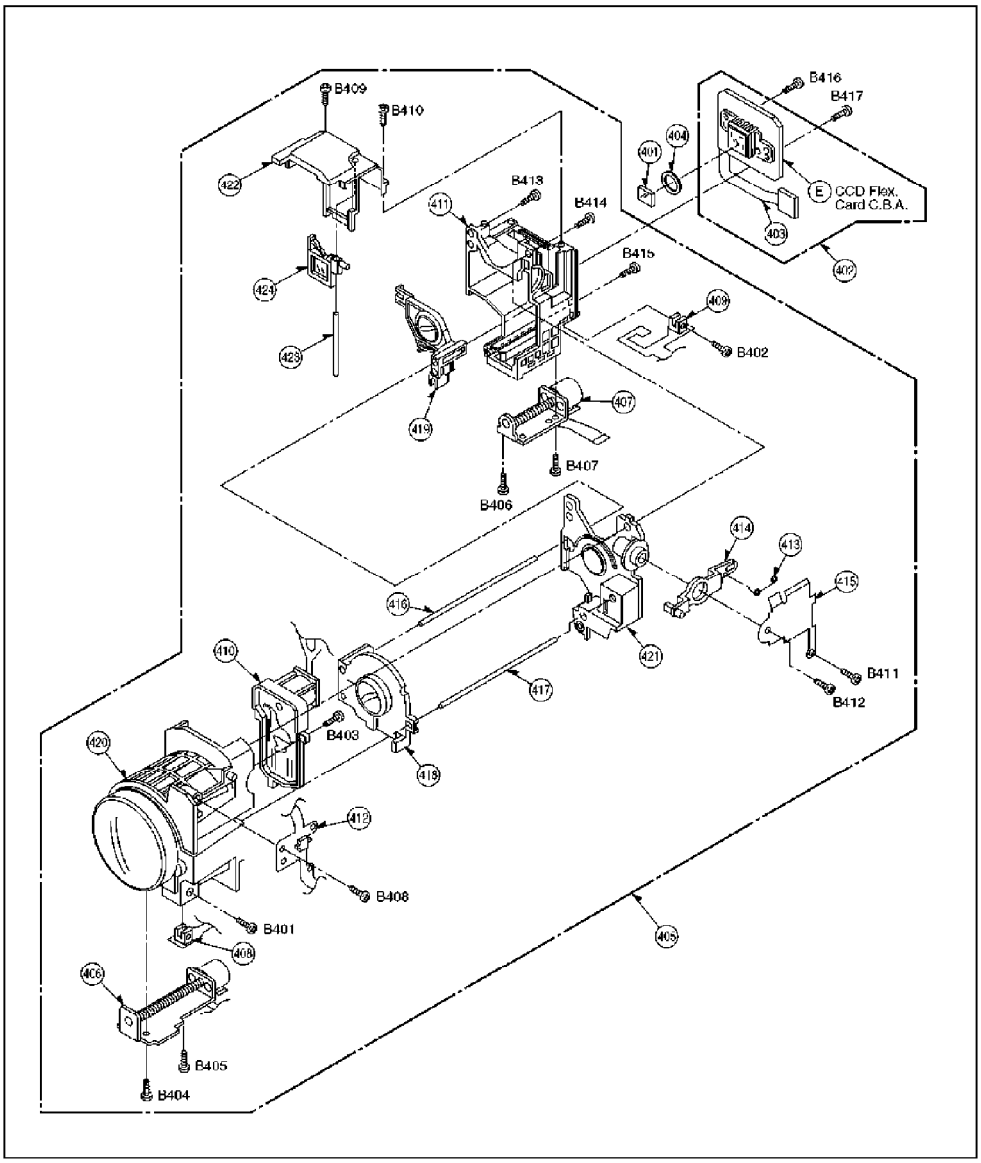
- To reassemble the unit follow the steps in reverse order.

Fig. L1

1. CCD Unit	Ref. No. 402
2. CCD Cushion & Crystal Filter	Ref. No. 404/401
3. Protect Sheet & Lever	Ref. No. 415/414
4. F fix frame & F frame U.	Ref. No. 422/424
5. Zoom Motor Unit	Ref. No. 406
6. Focus Motor Unit	Ref. No. 407
7. Lens Flex. Card C.B.A.	Ref. No. 412
8. Master Flange & Ilis U	Ref. No. 411/410
9. 3rd Lens Frame Unit	Ref. No. 421
10. 4th Moving Frame Unit	Ref. No. 419
11. 2nd Moving Frame Unit	Ref. No. 418
12. Guide Pole	Ref. No. 416/417

Note: Each Ref.-numbers are equivalent to number on Fig. L2 and Parts List.

Fig. L2



6. BLOCK DIAGRAMS

6.1. POWER SYSTEM BLOCK DIAGRAM

6.2. CPU/MDA SYSTEM BLOCK DIAGRAM

6.3. CAMERA AND Y/C SYSTEM BLOCK DIAGRAM

6.4. MONITOR SYSTEM BLOCK DIAGRAM

7. SCHEMATIC DIAGRAMS

7.1. BOARD INTERCONNECTIONS

7.2. CPU SCHEMATIC DIAGRAM

7.3. M.MDA SCHEMATIC DIAGRAM
7.4. VTR ASP SCHEMATIC DIAGRAM
7.5. DSP SCHEMATIC DIAGRAM
7.6. F/Z/I/MDA SCHEMATIC DIAGRAM
7.7. V OUT SCHEMATIC DIAGRAM
7.8. TG/CDS SCHEMATIC DIAGRAM
7.9. REG SCHEMATIC DIAGRAM
7.10. LCD/CVF SCHEMATIC DIAGRAM
7.11. B/W CVF SCHEMATIC DIAGRAM
7.12. JACK SCHEMATIC DIAGRAM
7.13. SPEAKER SCHEMATIC DIAGRAM
7.14. CCD SCHEMATIC DIAGRAM
7.15. MONITOR SCHEMATIC DIAGRAM
7.16. FRONT SCHEMATIC DIAGRAM
7.17. REAR SCHEMATIC DIAGRAM
7.18. SENSOR SCHEMATIC DIAGRAM
7.19. 0 LUX SCHEMATIC DIAGRAM
7.20. WAVEFORM TABLE
7.21. VOLTAGE CHARTS

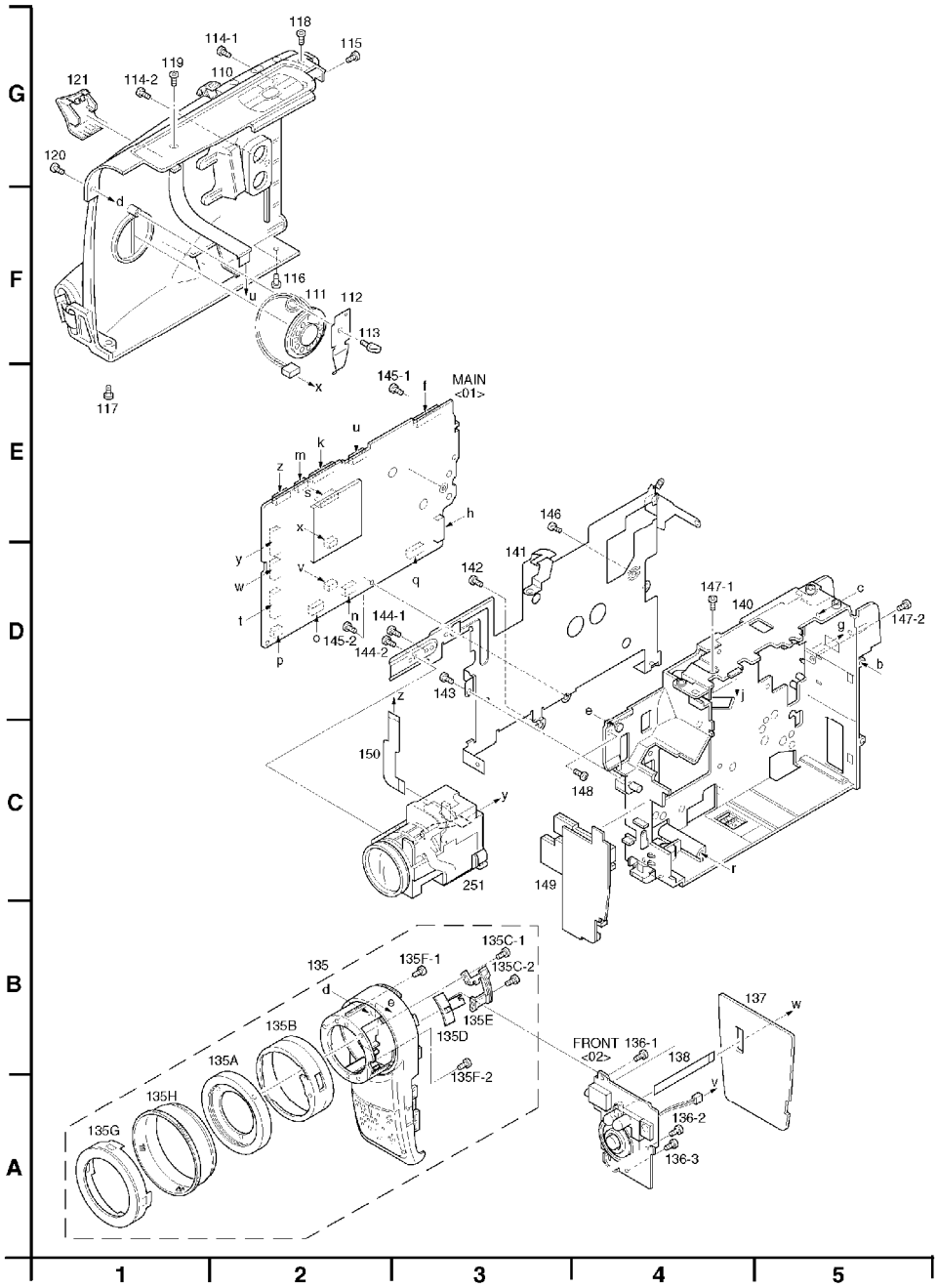
8. CIRCUIT BOARD ASSEMBLIES
8.1. MAIN C.B.A. (FOIL SIDE)
8.2. MAIN C.B.A. (COMPONENT SIDE)
8.3. MAIN C.B.A. ADDRESS INFOMATION
8.4. MONITOR C.B.A.

8.5. FRONT C.B.A.

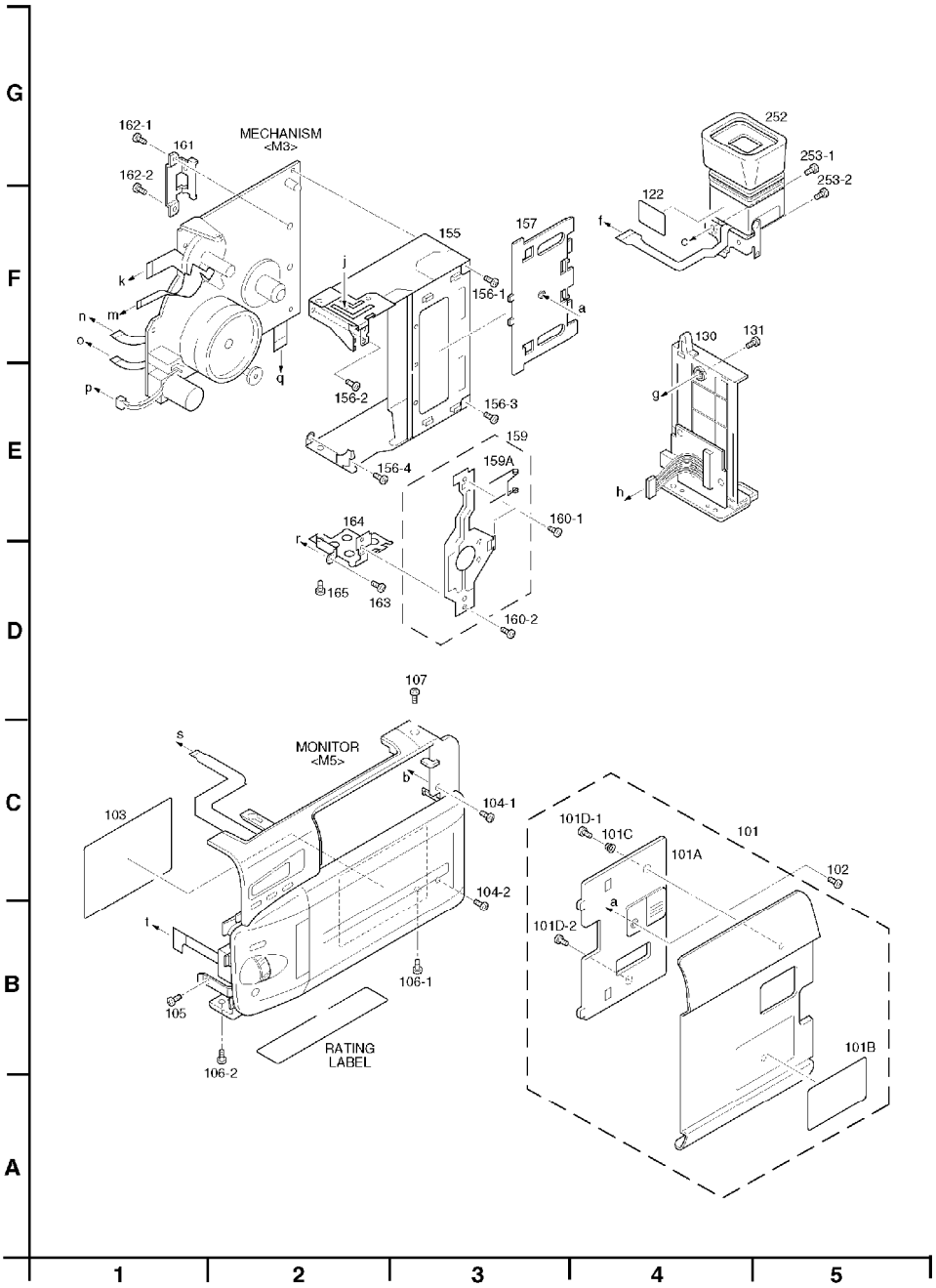
8.6. CCD C.B.A.

9. EXPLODED VIEWS

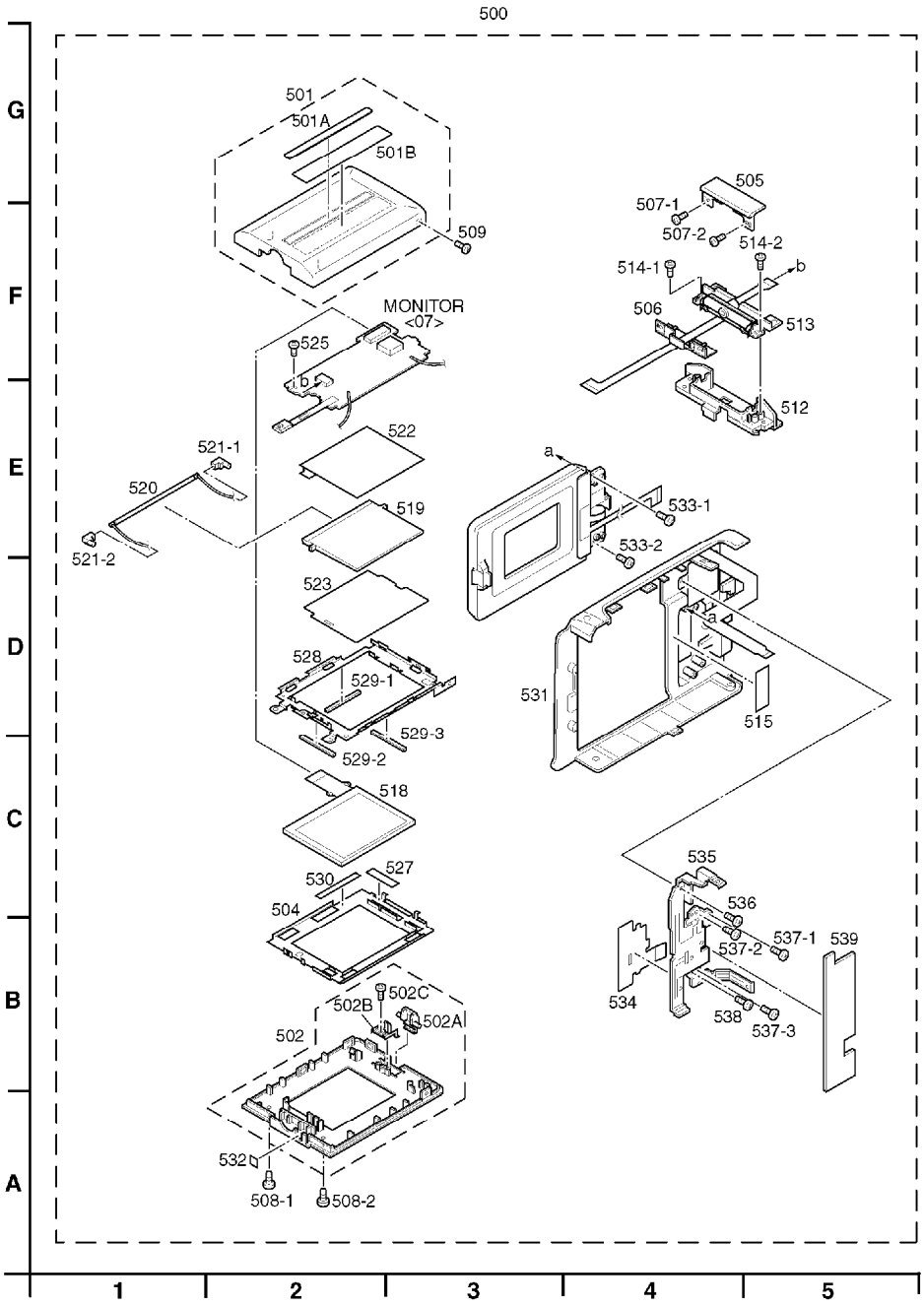
9.1. FRAME & CASING SECTION (1)



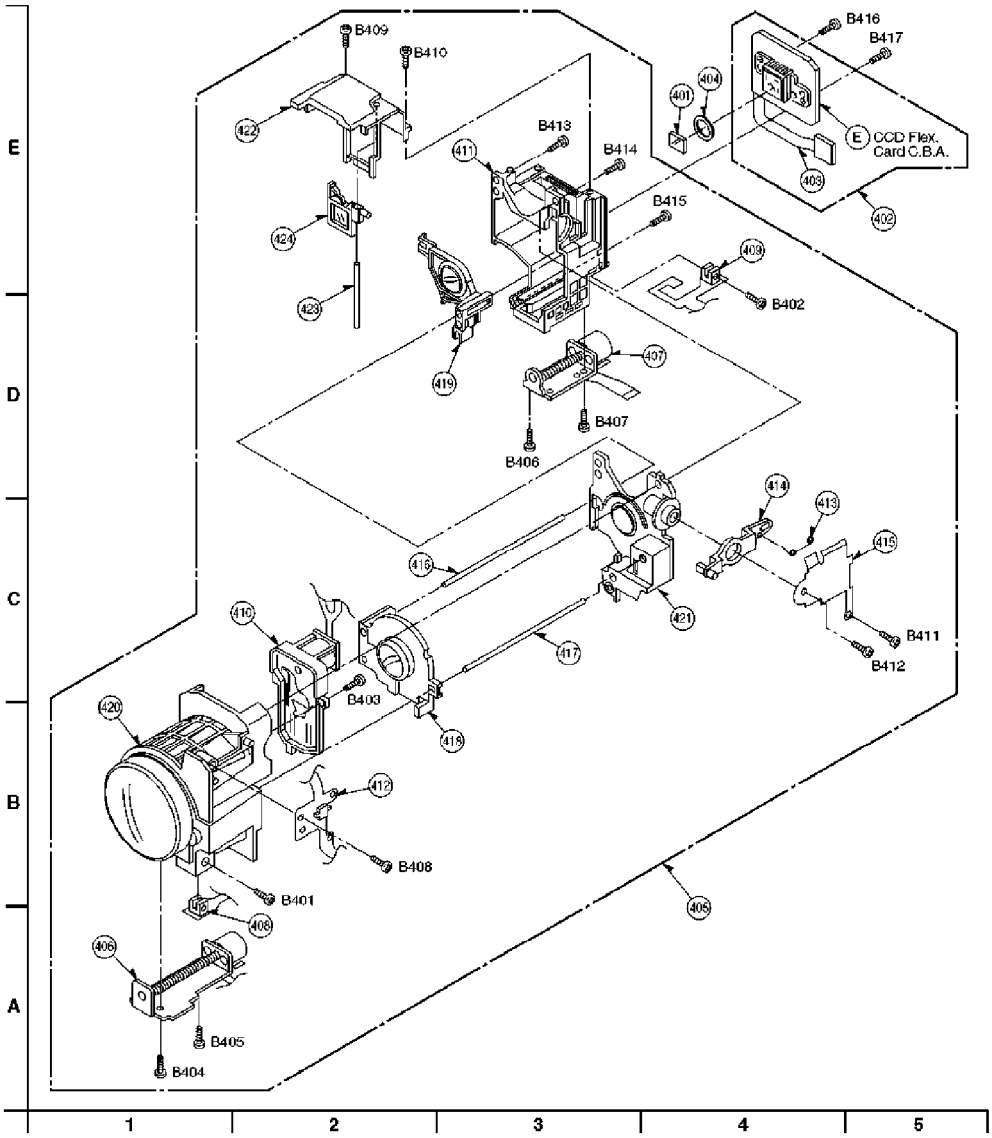
9.2. FRAME & CASING SECTION (2)



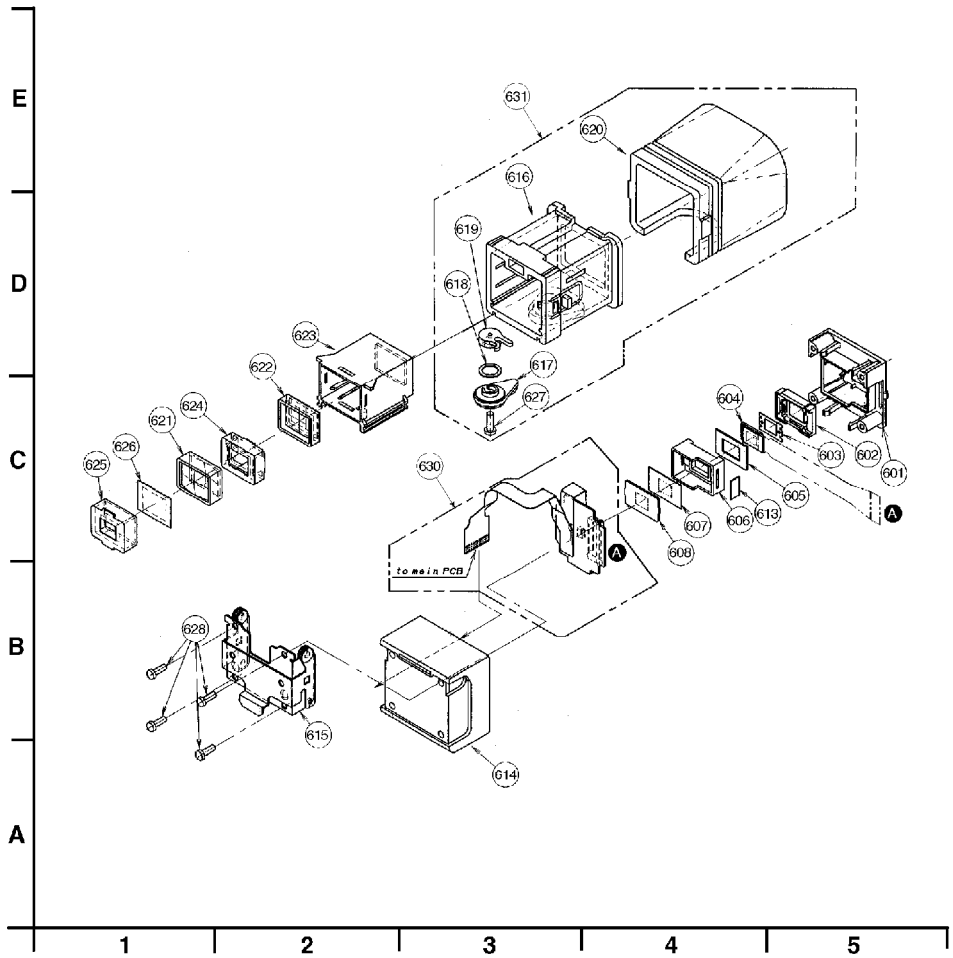
9.3. MONITOR SECTION



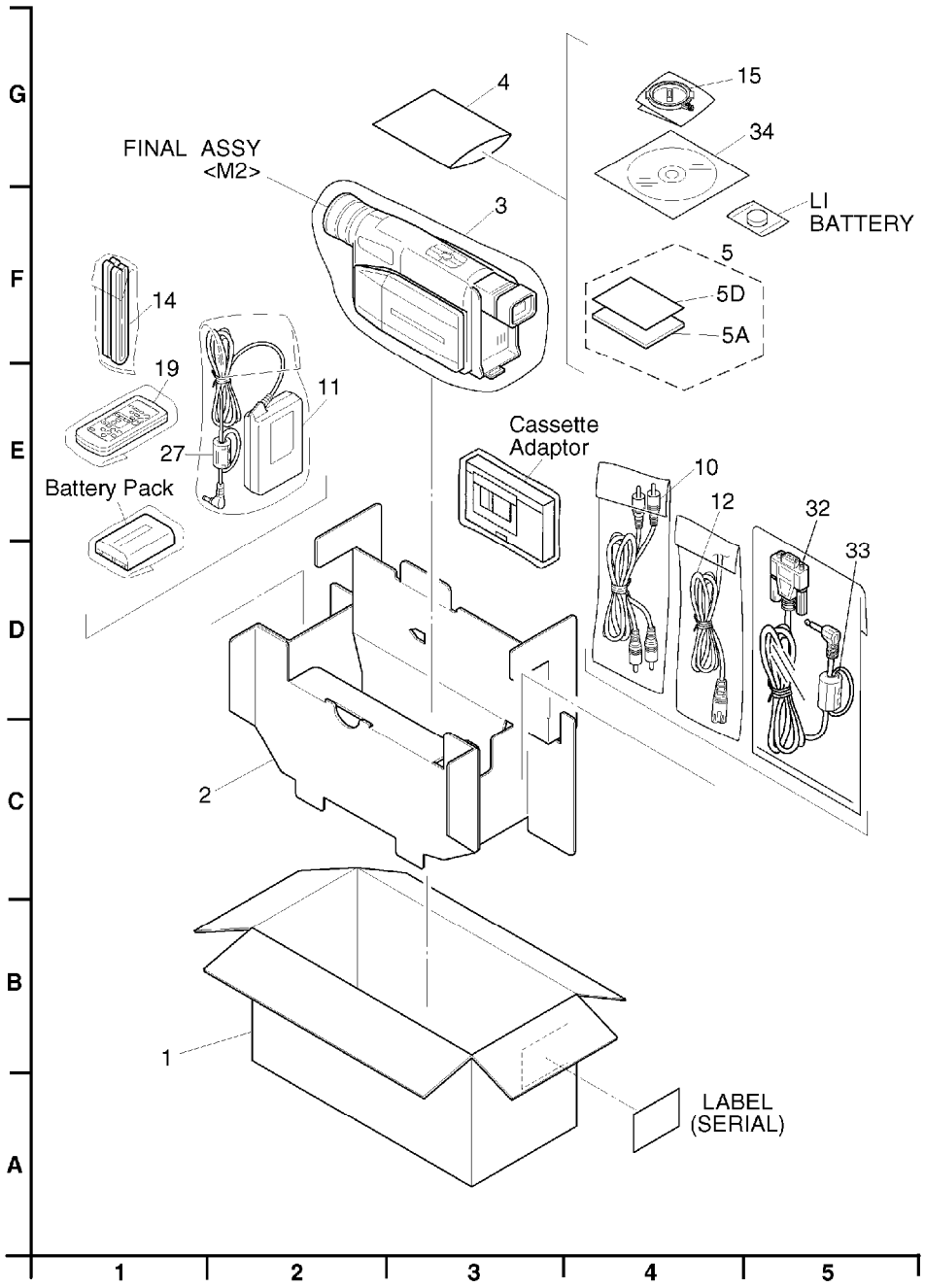
9.4. CAMERA LENS SECTION



9.5. EVF SECTION



9.6. PACKING PARTS & ACCESSORIES SECTION



10. REPLACEMENT PARTS LIST

10.1. MECHANICAL REPLACEMENT PARTS LIST

Note: 1.* Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

10.1.1. FRAME & CASING SECTION PARTS LIST

Ref. No.	Part No.	Part Name & Description	Remarks
■		FINAL ASSEMBLY <M2>	
101	LY20817-001C	CASSETTE COVER(M)ASSY	NV-VZ14EG/ / EGE/EGM
101	LY20817-002C	CASSETTE COVER(M)ASSY	NV-VZ15EG/ / EGE/EGM/B/EN
101	LY20817-003C	CASSETTE COVER(M)ASSY	NV-VZ55EG/ / EGM
101A	LY32392-001A	PUSH PLATE(M)	
101B	LY43340-001B	LABEL(CAUTION)	
101C	LY43336-001A	SPRING	
101D-1	YQ43762	SPECIAL SCREW	
101D-2	YQ43762	SPECIAL SCREW	
102	QYSLSF2050D	SCREW	
103	LY32732-001A	STICKER(LCD)	NV-VZ14EG/ / EGE/EGM
103	LY32732-003A	STICKER(LCD)	NV-VZ15EG/ / EGE/EGM/B
103	LY32732-004A	STICKER(LCD)	NV-VZ15EN
103	LY32732-005A	STICKER(LCD)	NV-VZ55EG/ / EGM
104-1	QYSLSF2050D	SCREW	
104-2	QYSLSF2050D	SCREW	
105	QYSLSP2040D	SCREW	
106-1	QYSLSF2060D	SCREW	
106-2	QYSLSF2060D	SCREW	
107	QYSLSF2050D	SCREW	
110	LY10319-001A	SIDE CASE(L)ASSY	NV-VZ14EG/ / EGE/EGM
			NV-VZ15EG/ / EGE/EGM/B/EN
110	LY10319-002A	SIDE CASE(L)ASSY	NV-VZ55EG/ / EGM
111	QAS0061-001	SPEAKER	
112	LY42764-001B	HOLDER(SPEAKER)	
113	QYSLSF2050D	SCREW	
114-1	QYSLSF2060D	SCREW	
114-2	QYSLSF2060D	SCREW	
115	QYSLSF2060D	SCREW	
116	QYSLSP2040D	SCREW	
117	QYSLSF2060D	SCREW	
118	QYSLSF2050D	SCREW	
119	QYSLSP20A0N	SCREW	
120	QYSLSF2060N	SCREW	
121	LY32397-001A	COVER(EVR)	
122	LY43559-001A	SHEET(POP)	NV-VZ14EG/ / EGE/EGM
			NV-VZ15EG/ / EGE/EGM/B/EN
122	LY43559-002A	SHEET(POP)	NV-VZ55EG/ / EGM
130	LY20779-001A	REAR UNIT	
131	QYSLSF2060D	SCREW	
135	LY20825-003B	FRONT COVER ASSY	NV-VZ14EG/ / EGE/EGM
			NV-VZ15EG/ / EGE/EGM/B/EN
135	LY20825-001B	FRONT COVER ASSY	NV-VZ55EG/ / EGM
135A	LY32393-001A	HOOD(SCREW)	
135B	LY32395-001A	RING	
135C-1	LY30018-0E7A	SPECIAL SCREW	
135C-2	LY30018-0E7A	SPECIAL SCREW	
135D	LY32475-001A	O-LUX KNOB	
135E	LY32476-001A	O-LUX HOLDER	
135F-1	LY30018-0E8A	SPECIAL SCREW	
135F-2	LY30018-0E8A	SPECIAL SCREW	
135G	LY32478-001A	HOOD PIECE	

Ref. No.	Part No.	Part Name & Description	Remarks
135H	LY32477-001A	LENS HOOD	
136-1	QYSLSF2050D	SCREW	
136-2	QYSLSF2050D	SCREW	
136-3	QYSLSF2050D	SCREW	
137	LY43415-001A	SHEET(FRONT PWB)	
138	QUQ105-1005A	FFC WIRE, / (MAIN CN9031-FRONT CN9)	
140	LY10305-001B	MAIN FRAME	
141	LY20785-001A	MECHA SUPPORT	
142	QYSPSPU1720Z	SCREW	
143	QYSLSF2060D	SCREW	
144-1	QYSLSG1735Z	SCREW	
144-2	QYSLSG1735Z	SCREW	
145-1	QYSLSF2060D	SCREW	
145-2	QYSLSF2060D	SCREW	
146	QYSPSTU1725M	SCREW	
147-1	LY41173-001A	SPECIAL SCREW	
147-2	LY41173-001A	SPECIAL SCREW	
148	QYSPSPU1720Z	SCREW	
149	LY43493-001A	SHEET(FRM)	
150	QAL0395-001	FPC,(MAIN CN22-CCD)	
155	LY31808-001C	CASSETTE HOUSING FINAL / ASSY	
156-1	LY42722-003A	SCREW	
156-2	LY42722-003A	SCREW	
156-3	LY42722-003A	SCREW	
156-4	LY42722-003A	SCREW	
157	LY32402-001A	CASSETTE COVER INSIDE	
159	LY31790-001A	FRONT FRAME ASSY	
159A	YQ44144-1-1	TAPE GUIDE	
160-1	SPSH1725M	SCREW	
160-2	SPSH1725M	SCREW	
161	LY32326-001A	BRACKET(MECHA)	
162-1	LY42722-003A	SCREW	
162-2	LY42722-003A	SCREW	
163	QYSLSF1750D	SCREW	
164	LY31807-001A	SIDE BRACKET L	
165	LY42722-003A	SCREW	
251	LY32579-001A	OP BLOCK ASSY	NV-VZ15EG/ / EGE/EGM/B/ / EN,
			NV-VZ55EG/ / EGM
252	LY43399-001A	B/W VF ASSY	⚠NV-VZ15 / EG/EGE/EGM/ / B/EN,
			NV-VZ55EG/ / EGM
253-1	QYSLSP2040D	SCREW	
253-2	QYSLSP2040D	SCREW	

10.1.2. MONITOR SECTION PARTS LIST

Ref. No.	Part No.	Part Name & Description	Remarks
■		MONITOR ASSEMBLY <M5>	
500	LY20837-006A	MONITOR ASSY	⚠ / NV-VZ15EG/ / EGE/EGM/B
500	LY20837-007A	MONITOR ASSY	⚠NV-VZ15EN
500	LY20837-002A	MONITOR ASSY	⚠ / NV-VZ55EG/ / EGM
500	LY20837-001A	MONITOR ASSY	⚠ / NV-VZ14EG/ / EGE/EGM
501	LY20821-005A	MONITOR COVER ASSY	⚠ / NV-VZ15EG/ / EGE/EGM/B
501	LY20821-006A	MONITOR COVER ASSY	⚠NV-VZ15EN
501	LY20821-001B	MONITOR COVER ASSY	⚠ / NV-VZ55EG/ / EGM
501	LY20821-002A	MONITOR COVER ASSY	⚠ / NV-VZ14EG/ / EGE/EGM
501A	LY43284-001A	STICKER(M)	
501B	LY43558-001A	STICKER(PANA.M)	NV-VZ14EG/ / EGE/EGM
501B	LY43558-004A	STICKER(PANA.M)	NV-VZ15EG/ / EGE/EGM/B
501B	LY43558-005A	STICKER(PANA.M)	NV-VZ15EN
501B	LY43558-006A	STICKER(PANA.M)	NV-VZ55EG/ / EGM
502	LY20822-001A	MONITOR CASE ASSY	
502A	LY32470-001A	LOCK SPRING	
502B	LY20823-001A	LOCK LEVER	
502C	QYSLSF2050Z	SCREW	
504	LY20814-001A	SHIELD CASE(2.5)	
505	LY32399-001A	HINGE COVER(U)	
506	LY32400-001A	HINGE COVER(L)	
507-1	LY30018-0E9A	SPECIAL SCREW	
507-2	LY30018-0E9A	SPECIAL SCREW	
508-1	QYSLSF2060D	SCREW	
508-2	QYSLSF2060D	SCREW	
509	QYSLSP2030N	SCREW	
512	LY20793-001B	HOLDER(HINGE)	
513	LY32398-001A	HINGE ASSY	
514-1	QYSPSF2060D	SCREW	
514-2	QYSPSF2060D	SCREW	
515	LY30029-0S9A	SPACER(A)	
518	QLD0209-001	LCD MODULE	
519	LY43392-001A	LIGHT SCREEN	
520	QLL0112-001	LAMP	
521-1	LY43397-001A	HOLDER(LAMP)	
521-2	LY43397-001A	HOLDER(LAMP)	
522	LY43396-001A	SHEET(REFLECT)	
523	LY43362-001A	DIFFUSION SHEET(2.5)	
525	QYSLSP2030N	SCREW	
527	LY30029-0R6A	SPACER(A)	
528	LY20798-001A	LCD FRAME(2.5)	
529-1	LY30029-0R5A	SPACER(A)	
529-2	LY30029-0R5A	SPACER(A)	
529-3	LY30029-0R5A	SPACER(A)	
530	LY30029-0T2A	SPACER(A)	
531	LY10321-001A	SIDE CASE(R)ASSY	NV-VZ14EG/ / EGE/EGM,
			NV-VZ15EG/ / EGE/EGM/B/EN

Ref. No.	Part No.	Part Name & Description	Remarks
531	LY10321-002A	SIDE CASE(R)ASSY	NV-VZ55EG/ / EGM
532	LY43506-001A	SHEET(MONITOR SENSOR)	
533-1	QYSPSF2080D	SCREW	
533-2	QYSPSF2080D	SCREW	
534	LY43286-001A	SHEET(FPC)	
535	LY20794-001A	BRACKET(SISE CASE R)	
536	QYSLSP2030N	SCREW	
537-1	QYSPSF2080D	SCREW	
537-2	QYSPSF2080D	SCREW	
537-3	QYSPSF2080D	SCREW	
538	QYSLSP20A0N	SCREW	
539	LY43539-001A	SHEET(SIDE CASE)	

10.1.3. CAMERA LENS SECTION PARTS LIST

Ref. No.	Part No.	Part Name & Description	Remarks
■		CAMERA LENS SECTION	
401	VDL1236	CRYSTAL FILTER	
402	VEK9376	CCD U.	
403	VJB22322	CCD FLEX.	
404	VMX3070	CCD CUSHION	
405	VXW0512	LENS U.	
406	10S1F10F6NF	ZOOM MOTOR U.	
407	10S1F10F7NF	FOCUS MOTOR U.	
408	CNA1302KR0SL	PHOTOSENSOR	
409	CNA1302KR0SL	PHOTOSENSOR	
410	L9ZZ00000184	IRIS U.	
411	VDW0740	MASTER FLANGE	
412	VEK9365	LENS FLEX. U.	
413	VMB3504	F SPRING	
414	VML3592	LEVER	
415	VMP6769	PROTECT SHEET	
416	VMS6943	GUIDE POLE	
417	VMS6943	GUIDE POLE	
418	VXP2122	2ND MOVING FRAME U.	
419	VXP2124	4TH MOVING FRAME U.	
420	VXQ1010	MAIN FRAME U.	
421	VXQ1011	3RD MOVING FRAME U.	
422	VDW0742	F FIX FRAME	
423	VMS6838	F GUIDE POLE	
424	VXQ1012	F FRAME U.	
B401	VHD0852	SCREW	
B402	VHD0852	SCREW	
B403	XQN16+CJ5	SCREW	
B404	XQN16+CJ5	SCREW	
B405	XQN16+CJ5	SCREW	
B406	XQN16+CJ5	SCREW	
B407	XQN16+CJ5	SCREW	
B408	XQN16+CJ5	SCREW	
B409	XQN16+CJ5	SCREW	

Ref. No.	Part No.	Part Name & Description	Remarks
B410	XQN16+CJ5	SCREW	
B411	XQN16+CJ5	SCREW	
B412	XQN16+CJ5	SCREW	
B413	XQN16+CJ8	SCREW	
B414	XQN16+CJ8	SCREW	
B415	XQN16+CJ8	SCREW	
B416	XQN16+CJ6	SCREW	
B417	XQN16+CJ6	SCREW	

10.1.4. EVF SECTION PARTS LIST

Ref. No.	Part No.	Part Name & Description	Remarks
■		EVF UNIT	
601	VJF1441	EVF HOLD PIECE	
602	VGQ6439	PANEL HOLDER	
603	VGQ6438	EVF MASK	
604	L5BDAXG00003	LCD PANEL U.	L5BDAXG00003
605	VGQ6440	DOUBLE-SIDED TAPE	
606	VGQ6441	BL HOLDER	
607	VGQ6442	POLARIZING PLATE 2	
608	VGQ6443	DIFFUSION PLATE	
613	VGQ6462	FIXING TAPE	
614	VKM5320	EVF CASE	
615	VXA6823	EVF HINGE U.	
616	VGQ5557	EYE CAP HOLDER	
617	VGQ5559	EYE CORRECT LEVER	
618	VGQ5726	EYE CORRECT WASHER	
619	VGQ6024	EYE CORRECT PIECE	
620	VMG1272	EYE CAP	
621	VDL1162	EVF LENS A	
622	VDL1163	EVF LENS B	
623	VGQ6486	EVF LENS HOLDER	
624	VGQ6026	LENS SPACER BACK	
625	VGQ6027	LENS SPACER FRONT	
626	VGQ6437	POLARIZING PLATE 1	
627	XQN16+BJ5FZ	SCREW (LEVER)	
628	XQN2+BJ5FZ	SCREW (CASE)	
630	VEP000W2A	EVF FLEX. CARD	
631	VYQ2303	EYE CAP HOLDER U.	

10.1.5. PACKING PARTS & ACCESSORIES SECTION PARTS LIST

Ref. No.	Part No.	Part Name & Description	Remarks
■		PACKING ASSEMBLY <M1>	
1	LY32403-001A	PACKING CASE	NV-VZ14EG
1	LY32403-027A	PACKING CASE	NV-VZ14EGM
1	LY32403-035A	PACKING CASE	NV-VZ14EGE
1	LY32403-003A	PACKING CASE	NV-VZ15EGE
1	LY32403-009A	PACKING CASE	NV-VZ15EG
1	LY32403-025A	PACKING CASE	NV-VZ15EGM
1	LY32403-029A	PACKING CASE	NV-VZ15B
1	LY32590-003A	PACKING CASE	NV-VZ15EN
1	LY32403-005A	PACKING CASE	NV-VZ55EG
1	LY32403-031A	PACKING CASE	NV-VZ55EGM
2	LY32404-001A	CUSHION	
3	LY32726-001A	POLY BAG	
4	LY32757-001A	POLY BAG(PANA)	
5A	LYT0887-001A	INST.BOOK	⚠ / NV-VZ14EG, / NV-VZ15EG
5A	LYT0916-001A	INST.BOOK	⚠ / NV-VZ14EGE, / NV-VZ15EGM
5A	LYT0894-001A	INST.BOOK	⚠ / NV-VZ14EGM, / NV-VZ15EGE
5A	LYT0919-001A	INST.BOOK	⚠NV-VZ15B
5A	LYT0885-001A	INST.BOOK	⚠NV-VZ15EN
5A	LYT0879-001A	INST.BOOK	⚠NV-VZ55EG
5A	LYT0918-001A	INST.BOOK	⚠ / NV-VZ55EGM
5D	LYT0945-001A	IB(SOFT.EN)	NV-VZ55EGM
5D	LYT0945-002A	IB(SOFT.GE)	NV-VZ55EG
5D	LYT0945-003A	IB(SOFT.FR)	NV-VZ55EG
5D	LYT0945-004A	IB(SOFT.DU)	NV-VZ55EG
5D	LYT0945-005A	IB(SOFT.SP)	NV-VZ55EGM
5D	LYT0945-006A	IB(SOFT.IT)	NV-VZ55EG
5D	LYT0945-011A	IB(SOFT.DA)	NV-VZ55EGM
5D	LYT0945-012A	IB(SOFT.SW)	NV-VZ55EGM
10	PEAC0362-150	CABLE ASSY / (AUDIO/VIDEO CABLE)	NV-VZ14EG/ / EGE/EGM,
			NV-VZ15EG/ / EGE/EGM/B,
			NV-VZ55EG/ / EGM
11	LY20847-005B	AC ADAPTOR	⚠ / NV-VZ14EG/ / EGE/EGM,
			NV-VZ15EG/ / EGE/EGM/B,
			NV-VZ55EG/ / EGM
11	LY20872-006A	AC ADAPTOR	⚠NV-VZ15EN
12	QMPL120-190	POWER CORD	⚠ / NV-VZ14EG/ / EGE/EGM,
			NV-VZ15EG/ / EGE/EGM/EN,
			NV-VZ55EG/ / EGM
12	QMPP110-190	POWER CORD	⚠NV-VZ15B
14	LY43550-001A	SHOULDER STRAP	
15	LY20839-001A	HOODCAP ASSY,LENS CAP	
19	LY43412-001A	REMOTE CONTROLLER	NV-VZ15EG/ / EGE/EGM/EN
19	LY43410-001A	REMOTE CONTROLLER	NV-VZ55EG/ / EGM
27	QQR1266-001	CORE FILTER	

Ref. No.	Part No.	Part Name & Description	Remarks
32	QAM0384-001	PC CONNECTION CABLE	NV-VZ55EG/ / EGM
33	QQR1266-001	CORE FILTER	NV-VZ55EG/ / EGM
34	LY32210-021A	CD ROM ASSY	NV-VZ55EG/ / EGM

10.2. ELECTRICAL REPLACEMENT PARTS LIST

Note: 1. Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE : Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.
3. Unless otherwise specified,
All resistors are in OHMS , K=1,000 OHMS. All capacitors are in MICRO-FARADS(uf) , P=uuF.
4. The P.C.Board units marked width"■"show below the main assembled parts.
5. The marking(RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.

Ref. No.	Part No.	Part Name & Description	Remarks
■		MAIN BOARD ASSEMBLY	
PW	YB10363EC-02	MAIN BOARD ASSY	(RTL) / NV-VZ14EG/ / EGE/ EGM,
			NV-VZ15EG/ / EGE/EGM/B/EN
PW	YB10363EA-02	MAIN BOARD ASSY	(RTL) / NV-VZ55EG/ / EGM
C103	NBE20JM-106X	TA E CAPACITOR	
C104	NCB31EK-103X	CAPACITOR	
C105	NCB21CK-224X	CAPACITOR	
C107	NCB31EK-103X	CAPACITOR	
C108	NBE21AM-225X	TA E CAPACITOR	
C109	NBE20JM-106X	TA E CAPACITOR	
C110	NDC31HJ-101X	CAPACITOR	
C112	NEA70JM-226X	E CAPACITOR	
C113	NCB31EK-103X	CAPACITOR	
C114	NCB31EK-103X	CAPACITOR	
C115	NCF31EZ-104X	CAPACITOR	
C116	NCB31EK-103X	CAPACITOR	
C118	NCF31EZ-104X	CAPACITOR	
C119	NCB31EK-103X	CAPACITOR	
C120	NCB31EK-103X	CAPACITOR	
C121	NCF31EZ-104X	CAPACITOR	
C122	NCF31EZ-104X	CAPACITOR	
C123	NDC31HJ-100X	CAPACITOR	
C124	NDC31HJ-100X	CAPACITOR	
C125	NCB31EK-103X	CAPACITOR	
C126	NDC31HJ-100X	CAPACITOR	
C127	NCB31CK-333X	CAPACITOR	
C128	NCB21CK-474X	CAPACITOR	
C129	NCB31CK-333X	CAPACITOR	
C131	NCF31EZ-104X	CAPACITOR	
C132	NCF31EZ-104X	CAPACITOR	
C133	NCF31EZ-104X	CAPACITOR	
C134	NCF31EZ-104X	CAPACITOR	
C138	NCB31EK-103X	CAPACITOR	
C142	NCB31CK-104X	CAPACITOR	
C143	NDC31HJ-3R0X	CAPACITOR	
C144	NCB31CK-104X	CAPACITOR	
C1201	NCB31HK-102X	CAPACITOR	

Ref. No.	Part No.	Part Name & Description	Remarks
C1202	NBE20JM-106X	TA E CAPACITOR	
C1205	NCB31EK-153X	CAPACITOR	
C1206	NBE20JM-106X	TA E CAPACITOR	
C1601	NCB21EK-104X	CAPACITOR	
C1602	NCB30JK-105X	CAPACITOR	
C1603	NCB31EK-103X	CAPACITOR	
C1604	NCB31EK-103X	CAPACITOR	
C1605	NCB31EK-103X	CAPACITOR	
C1606	NCB21EK-104X	CAPACITOR	
C1607	NCB21CK-474X	CAPACITOR	
C1608	NCB31HK-332X	CAPACITOR	
C1609	NBE20JM-106X	TA E CAPACITOR	
C1610	NCB31HK-681X	CAPACITOR	
C1611	NCB31CK-104X	CAPACITOR	
C1612	NCB21CK-105X	CAPACITOR	
C1613	NCB31CK-333X	CAPACITOR	
C1614	NCB31CK-104X	CAPACITOR	
C1615	NCB31CK-104X	CAPACITOR	
C1616	NCB31CK-104X	CAPACITOR	
C1617	NCB31CK-104X	CAPACITOR	
C1618	NCB31CK-104X	CAPACITOR	
C1619	NCB31CK-104X	CAPACITOR	
C1620	NBE21AM-106X	TA E CAPACITOR	
C1621	NBP41CM-106X	TA E CAPACITOR	
C1625	NCB31CK-104X	CAPACITOR	
C1628	NDC31HJ-101X	CAPACITOR	
C1630	NBE20JM-106X	TA E CAPACITOR	
C2001	NBE20JM-106X	TA E CAPACITOR	
C2002	NFV41HJ-183X	MPPS CAPACITOR	
C2003	NDC31HJ-331X	CAPACITOR	
C2004	NBE20JM-226X	TA E CAPACITOR	
C2005	NCB21CK-105X	CAPACITOR	
C2021	NCB31HK-103X	CAPACITOR	
C2022	NBE20JM-156X	TA E CAPACITOR	
C2023	NBP21CM-105X	TA E CAPACITOR	
C2024	NCB31HK-102X	CAPACITOR	
C2025	NCB21CK-105X	CAPACITOR	
C2026	NCB31HK-222X	CAPACITOR	
C2027	NCB21EK-333X	CAPACITOR	
C2028	NCB21CK-105X	CAPACITOR	
C2029	NCB21CK-105X	CAPACITOR	
C2031	NCB31CK-104X	CAPACITOR	
C2032	NCB31HK-472X	CAPACITOR	
C2033	NBE20JM-475X	TA E CAPACITOR	
C2034	NCB31CK-104X	CAPACITOR	
C2035	NBE20JM-226X	TA E CAPACITOR	
C2036	NBE20JM-106X	TA E CAPACITOR	
C2038	NCB21CK-474X	CAPACITOR	
C2039	NDC31HJ-330X	CAPACITOR	
C2051	NCB31EK-103X	CAPACITOR	
C2071	NBE20JM-106X	TA E CAPACITOR	
C2072	NCB31HK-222X	CAPACITOR	
C2401	NEA70GM-476X	E CAPACITOR	
C2402	NCB21CK-105X	CAPACITOR	

Ref. No.	Part No.	Part Name & Description	Remarks
C2403	NBE20JM-475X	TA E CAPACITOR	
C2404	NCF31EZ-104X	CAPACITOR	
C3506	NCB31EK-103X	CAPACITOR	
C3507	NCB31EK-103X	CAPACITOR	
C3508	NCB31EK-103X	CAPACITOR	
C3509	NDC31HJ-221X	CAPACITOR	
C3510	NCB31CK-104X	CAPACITOR	
C3512	NCB10JK-106X	CAPACITOR	
C3513	NCB31CK-223X	CAPACITOR	
C3514	NCB30JK-105X	CAPACITOR	
C3515	NCB31EK-103X	CAPACITOR	
C3516	NDC31HJ-100X	CAPACITOR	
C3902	NCB31EK-103X	CAPACITOR	
C3903	NDC31HJ-3R0X	CAPACITOR	
C4002	NCF31EZ-104X	CAPACITOR	
C4003	NCF31EZ-104X	CAPACITOR	
C4004	NCF31EZ-104X	CAPACITOR	
C4005	NCF31EZ-104X	CAPACITOR	
C4007	NCF31EZ-104X	CAPACITOR	
C4008	NCF31EZ-104X	CAPACITOR	
C4009	NDC31HG-100X	CAPACITOR	
C4010	NDC31HG-100X	CAPACITOR	
C4012	NCF31EZ-104X	CAPACITOR	
C4013	NCF31EZ-104X	CAPACITOR	
C4014	NCB31CK-104X	CAPACITOR	
C4015	NCF31EZ-104X	CAPACITOR	
C4016	NCB31CK-104X	CAPACITOR	
C4017	NCF31EZ-104X	CAPACITOR	
C4018	NCF31EZ-104X	CAPACITOR	
C4019	NCF31EZ-104X	CAPACITOR	
C4020	NCB31CK-104X	CAPACITOR	
C4021	NCF31EZ-104X	CAPACITOR	
C4023	NCF31EZ-104X	CAPACITOR	
C4026	NCB10JK-106X	CAPACITOR	
C4027	NCF31EZ-104X	CAPACITOR	
C4028	NCF31EZ-104X	CAPACITOR	
C4029	NCB31CK-104X	CAPACITOR	
C4030	NCF31EZ-104X	CAPACITOR	
C4031	NCB30JK-105X	CAPACITOR	
C4032	NCF31EZ-104X	CAPACITOR	
C4033	NCF31EZ-104X	CAPACITOR	
C4034	NCF31EZ-104X	CAPACITOR	
C4035	NCF31EZ-104X	CAPACITOR	
C4036	NCF31EZ-104X	CAPACITOR	
C4037	NCF31EZ-104X	CAPACITOR	
C4038	NCF31EZ-104X	CAPACITOR	
C4039	NCF31EZ-104X	CAPACITOR	
C4040	NCF31EZ-104X	CAPACITOR	
C4041	NCB30JK-105X	CAPACITOR	
C4042	NCB30JK-105X	CAPACITOR	
C4044	NCB30JK-105X	CAPACITOR	NV-VZ55EG/ / EGM
C4045	NCB30JK-105X	CAPACITOR	
C4046	NDC31HJ-221X	CAPACITOR	
C4047	NCF31EZ-104X	CAPACITOR	

Ref. No.	Part No.	Part Name & Description	Remarks
C4048	NCF31EZ-104X	CAPACITOR	
C4201	NEA71HM-225X	E CAPACITOR	
C4202	NCF31EZ-104X	CAPACITOR	
C4203	NCB31CK-104X	CAPACITOR	
C4205	NCB31EK-103X	CAPACITOR	
C4206	NCB31CK-104X	CAPACITOR	
C4207	NCB31EK-103X	CAPACITOR	
C4208	NCB31CK-104X	CAPACITOR	
C4209	NCB31CK-104X	CAPACITOR	
C4210	NCF21CZ-105X	CAPACITOR	
C4211	NCB30JK-105X	CAPACITOR	
C4212	NCB30JK-105X	CAPACITOR	
C4251	NEA71HM-335X	E CAPACITOR	
C4252	NCB31CK-104X	CAPACITOR	
C4253	NCB31EK-153X	CAPACITOR	
C4254	NCB31EK-153X	CAPACITOR	
C4256	NEA71CM-106X	E CAPACITOR	
C4504	NCF31EZ-104X	CAPACITOR	
C4505	NDC31HJ-330X	CAPACITOR	
C4506	NCB31CK-333X	CAPACITOR	
C4507	NCB31CK-333X	CAPACITOR	
C4508	NCB31CK-333X	CAPACITOR	
C4509	NCB31CK-333X	CAPACITOR	
C4510	NCB31CK-104X	CAPACITOR	
C4511	NCF31EZ-104X	CAPACITOR	
C4512	NEA71CM-107X	E CAPACITOR	
C4513	NDC31HJ-330X	CAPACITOR	
C4702	NDC31HJ-270X	CAPACITOR	
C4703	NDC31HJ-150X	CAPACITOR	
C4704	NCB30JK-105X	CAPACITOR	
C4705	NCB31EK-103X	CAPACITOR	
C4706	NEA70GM-107X	E CAPACITOR	
C4707	NEA70JM-226X	E CAPACITOR	
C4708	NCF31EZ-104X	CAPACITOR	
C4709	NBE20JM-106X	TA E CAPACITOR	
C4716	NDC31HJ-270X	CAPACITOR	
C4717	NDC31HJ-150X	CAPACITOR	
C5203	NCB10JK-106X	CAPACITOR	
C5207	NCB31EK-103X	CAPACITOR	
C5208	NCB31EK-103X	CAPACITOR	
C5209	NCB31EK-103X	CAPACITOR	
C5210	NCF31EZ-104X	CAPACITOR	
C5211	NCB21CK-105X	CAPACITOR	
C5212	NCB21CK-105X	CAPACITOR	
C5213	NCB31HK-332X	CAPACITOR	
C5214	NDC31HJ-101X	CAPACITOR	
C5218	NCF31EZ-104X	CAPACITOR	
C5219	NBP21CM-685X	TA E CAPACITOR	
C5221	NCB11EK-105X	CAPACITOR	
C5222	NCB31CK-104X	CAPACITOR	
C5223	NCF31EZ-104X	CAPACITOR	
C5225	NCF31EZ-104X	CAPACITOR	
C5227	NCB31CK-104X	CAPACITOR	
C5228	NCF31EZ-104X	CAPACITOR	

Ref. No.	Part No.	Part Name & Description	Remarks
C5229	NCB11EK-105X	CAPACITOR	
C5230	NCB21EK-104X	CAPACITOR	
C5232	NDC31HJ-100X	CAPACITOR	
C5233	NDC31HJ-100X	CAPACITOR	
C5234	NDC31HJ-100X	CAPACITOR	
C5235	NDC31HJ-100X	CAPACITOR	
C5236	NDC31HJ-100X	CAPACITOR	
C5237	NDC31HJ-100X	CAPACITOR	
C6002	NEA71CM-106X	E CAPACITOR	
C6004	NCF21CZ-105X	CAPACITOR	
C6005	NCB21CK-105X	CAPACITOR	
C6006	NCB31EK-103X	CAPACITOR	
C6007	NCB21CK-105X	CAPACITOR	
C6009	NDC31HJ-101X	CAPACITOR	
C6010	NCB21CK-224X	CAPACITOR	
C6011	NCB31EK-103X	CAPACITOR	
C6012	NCB21CK-224X	CAPACITOR	
C6013	NCB21CK-154X	CAPACITOR	
C6014	NCB31CK-104X	CAPACITOR	
C6015	NCB31CK-104X	CAPACITOR	
C6016	NCB31EK-473X	CAPACITOR	
C6017	NCF21CZ-105X	CAPACITOR	
C6018	NCB21CK-224X	CAPACITOR	
C6020	NCB21CK-224X	CAPACITOR	
C6021	NCB31EK-103X	CAPACITOR	
C6101	NCB21CK-105X	CAPACITOR	
C6102	NCB10JK-106X	CAPACITOR	
C6105	NCB31HK-681X	CAPACITOR	
C6110	NCB31HK-152X	CAPACITOR	
C6201	NCB21CK-105X	CAPACITOR	
C6202	NCB10JK-106X	CAPACITOR	
C6203	NBE40JM-476X	TA E CAPACITOR	
C6205	NCB31HK-472X	CAPACITOR	
C6210	NCB31HK-472X	CAPACITOR	
C6301	NCB11CK-225X	CAPACITOR	
C6302	NCB10JK-106X	CAPACITOR	
C6303	NBE40JM-476X	TA E CAPACITOR	
C6305	NCB31HK-561X	CAPACITOR	
C6307	NEA71CM-106X	E CAPACITOR	
C6310	NCB31HK-102X	CAPACITOR	
C6401	NCB21CK-105X	CAPACITOR	
C6402	NCF21CZ-105X	CAPACITOR	
C6501	NCB21CK-105X	CAPACITOR	
C6502	NCF21CZ-105X	CAPACITOR	
C6602	NCF21CZ-105X	CAPACITOR	
C6603	NCB11EK-105X	CAPACITOR	
C6606	NCB11EK-105X	CAPACITOR	
C6607	NCF21CZ-105X	CAPACITOR	
C6610	NCB31EK-103X	CAPACITOR	
C6616	NCB21CK-105X	CAPACITOR	
C6622	NCB21CK-105X	CAPACITOR	
C6701	NCB21CK-105X	CAPACITOR	
C6702	NCB41CK-106X	CAPACITOR	
C6710	NCB31CK-333X	CAPACITOR	

Ref. No.	Part No.	Part Name & Description	Remarks
C6711	NCB31HK-472X	CAPACITOR	
C6801	NCF21CZ-105X	CAPACITOR	
C6802	NCF21CZ-105X	CAPACITOR	
C6811	NCB21CK-105X	CAPACITOR	
C7051	NCB31EK-103X	CAPACITOR	
C7052	NBE20JM-106X	TA E CAPACITOR	
C7053	NCB31EK-103X	CAPACITOR	
C7054	NBP41EM-475X	TA E CAPACITOR	
C7064	NCB11EK-105X	CAPACITOR	
C7065	NCB11EK-105X	CAPACITOR	
C7066	NCB11EK-105X	CAPACITOR	
C7069	NCB31EK-103X	CAPACITOR	
C7302	NCF31EZ-104X	CAPACITOR	
C7303	NCF31EZ-104X	CAPACITOR	
C7304	NCB21CK-105X	CAPACITOR	
C7305	NCB31CK-223X	CAPACITOR	
C7306	NCB31EK-103X	CAPACITOR	
C7307	NCB21EK-104X	CAPACITOR	
C7308	NCF31EZ-104X	CAPACITOR	
C7309	NCF31EZ-104X	CAPACITOR	
C7310	NCB11CK-475X	CAPACITOR	
C7311	NCF31EZ-104X	CAPACITOR	
C7312	NCB31HK-102X	CAPACITOR	
C7314	NCB31CK-104X	CAPACITOR	
C7315	NCB31CK-104X	CAPACITOR	
C7318	NCB11EK-105X	CAPACITOR	
C7320	NDC31HJ-181X	CAPACITOR	
C7321	NCB11EK-105X	CAPACITOR	
C7323	NCB31CK-104X	CAPACITOR	
C8007	NCB31CK-104X	CAPACITOR	
C9101	NCF31EZ-104X	CAPACITOR	NV-VZ55EG/ / EGM
C9102	NCF31EZ-104X	CAPACITOR	NV-VZ55EG/ / EGM
C9103	NCF31EZ-104X	CAPACITOR	NV-VZ55EG/ / EGM
C9104	NCF31EZ-104X	CAPACITOR	NV-VZ55EG/ / EGM
C9105	NCF31EZ-104X	CAPACITOR	NV-VZ55EG/ / EGM
C9106	NBE20JM-106X	TA E CAPACITOR	NV-VZ55EG/ / EGM
CN1	QGF0508F1-10	FPC CONNECTOR	
CN2	QGF0508F1-14	FPC CONNECTOR	
CN3	QGF0505F2-18	FPC CONNECTOR	
CN4	QGA1201F2-02	CONNECTOR	
CN5	QGF0508F1-11	FPC CONNECTOR	
CN7	QGF0508F1-11	FPC CONNECTOR	
CN8	QGA1201C2-02	CONNECTOR	
CN15	QGF0505F2-22	FPC CONNECTOR	
CN16	QGF0508F1-25	FPC CONNECTOR	
CN22	QGF0508F1-14	FPC CONNECTOR	
CN27	QGA1201C2-02	CONNECTOR	
CN28	QGA1002F1-11	CONNECTOR	
CN9012	QGF0505F2-20	FPC CONNECTOR	
CN9013	QGF0524F1-16	FFC/FPC CONNECTOR	
CN9018	QGF0503C1-13	FFC/FPC CONNECTOR	
CN9025	QGB0801M1-22	CONNECTOR	
CN9031	QGF0507F1-10	FPC CONNECTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
D101	SB007W03Q	SB DIODE	⚠
D102	UDZS7.5B	ZENER DIODE	
D103	1SS355	DIODE	B0ACCK000005
D104	1SS355	DIODE	B0ACCK000005
D5201	1SS355	DIODE	B0ACCK000005
D6301	MBR130	SB DIODE	
D6601	RB480Y	SB DIODE	
D6602	RB480Y	SB DIODE	
D6616	UDZS7.5B	ZENER DIODE	
D6701	CRS09	SB DIODE	
D6702	CRS09	SB DIODE	
D7301	MA111	DIODE	MA2J111
D9101	EMZ6.8N	ZENER DIODE	NV-VZ55EG/ / EGM
D9102	EMZ6.8N	ZENER DIODE	NV-VZ55EG/ / EGM
F6001	NMFZ007-2R0X	FUSE	⚠
F6002	NMFZ007-1R25	FUSE	⚠
F6003	NMFZ007-R40X	FUSE	⚠
IC101	UPD70F3040	IC(MICRO C ROM)	
IC102	AT25080N	IC	
IC103	RS5C314	IC	
IC104	IC-PST3427U	IC	
IC105	TC7S66FU	IC(DIGITAL)	NV-VZ55EG/ / EGM
IC1601	LB11951WA	IC	⚠
IC1602	TA75S393F	IC	C0BBAB000005
IC2001	TC74AC04FT	IC(DIGITAL)	C0JBAB000463
IC2401	NJM2149V	IC	
IC3501	HA118224F	IC	
IC4001	JCY0140-3	IC	
IC4002	Z4C2973-32	IC	NV-VZ55EG/ / EGM
IC4003	UPD6467GR	IC(MICRO C ROM)	
IC4201	BA10324AF	IC	
IC4202	BA10324AF	IC	
IC4501	UPD16835AGS	IC	
IC4701	MM1512XN	IC	
IC5201	HD49326BF	IC	
IC5202	JCY0098	IC	
IC6001	FA7706F	IC	
IC6801	S-814A33AUC	IC	
IC7301	MCVVQ111FB	IC	
IC9101	MAX3221CAE	IC	NV-VZ55EG/ / EGM
J101	QAB0050-001	LI BATTERY	⚠
J504	LY31356-002A	JACK UNIT	
L101	NQL365K-220X	COIL	
L1601	NQL144M-1R0X	COIL	
L1602	NQL144K-100X	COIL	
L2001	NQL144K-470X	COIL	
L2003	NQL034K-470X	COIL	

Ref. No.	Part No.	Part Name & Description	Remarks
L2004	NQR0403-003X	FERRITE BEAD	
L2005	NRSA63J-0R0X	MG RESISTOR	
L2021	NQL315K-470X	COIL	
L2022	NQR0403-003X	FERRITE BEAD	
L2023	NQR0406-003X	FERRITE BEAD	
L2051	NRSA63J-0R0X	MG RESISTOR	
L2052	NRSA63J-0R0X	MG RESISTOR	
L2071	NRSA63J-0R0X	MG RESISTOR	
L2072	NRSA63J-0R0X	MG RESISTOR	
L2401	NQL315K-470X	COIL	
L3502	NQL365K-220X	COIL	
L3503	NQL085J-5R6X	COIL	
L4001	NQL365K-220X	COIL	
L4201	NQR0006-001X	FERRITE BEAD	
L4501	NQR0006-001X	FERRITE BEAD	
L4503	NQL034K-101X	COIL	
L4701	NQL365K-220X	COIL	
L5201	NQL315K-470X	COIL	
L5202	NQL365K-220X	COIL	
L5203	NQL365K-220X	COIL	
L6001	NQL62EM-100X	COIL	
L6002	NQL62EM-100X	COIL	
L6101	NQL64EM-330X	COIL	
L6201	NQL64EM-470X	COIL	
L6301	NQL52EM-220X	COIL	
L6302	NQR0006-001X	FERRITE BEAD	
L6401	NQLZ011-470X	COIL	
L6501	NQLZ011-470X	COIL	
L6601	NQL52EM-221X	COIL	
L6701	NQL52EM-100X	COIL	
L7005	NQL365K-220X	COIL	
L7006	NQL365K-220X	COIL	
L7302	NQR0006-001X	FERRITE BEAD	
L9101	NRSA63J-0R0X	MG RESISTOR	
L9102	NQL365K-220X	COIL	NV-VZ55EG/ / EGM
OT1	LY30016-049A	SPACER-A	
OT2	PU59915-105	#500SPACER0.01	
Q101	2SA1774-RS	TRANSISTOR	
Q102	DTC144EE	DIGI TRANSISTOR	
Q103	2SC4617-QR	TRANSISTOR	
Q104	DTC144EE	DIGI TRANSISTOR	
Q105	2SA1774-RS	TRANSISTOR	
Q107	DTC144EE	DIGI TRANSISTOR	
Q108	DTC114EE	DIGI TRANSISTOR	
Q109	DTC114EE	DIGI TRANSISTOR	
Q112	2SC4617-QR	TRANSISTOR	
Q113	DTC144EE	DIGI TRANSISTOR	
Q114	DTC144EE	DIGI TRANSISTOR	
Q1601	2SC4617-QR	TRANSISTOR	
Q2001	DTA114TE	DIGI TRANSISTOR	
Q2007	PUMX1	PAIR TRANSISTOR	
Q2008	PUMT1	PAIR TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q2021	DTC144EE	DIGI TRANSISTOR	
Q2022	DTC144EE	DIGI TRANSISTOR	
Q2023	2SC4617-QR	TRANSISTOR	
Q2071	2SC4617-QR	TRANSISTOR	
Q2401	DTC144EE	DIGI TRANSISTOR	
Q3501	HN1C01FU/G	PAIR TRANSISTOR	
Q3502	HN1C01FU/G	PAIR TRANSISTOR	
Q3901	HN1A01FU/G	PAIR TRANSISTOR	
Q4201	2SC4617-QR	TRANSISTOR	
Q4202	2SC4617-QR	TRANSISTOR	
Q4501	DTC114EE	DIGI TRANSISTOR	
Q4502	DTC114EE	DIGI TRANSISTOR	
Q4503	2SB1122-S	TRANSISTOR	
Q4701	2SA1774-QR	TRANSISTOR	
Q4702	2SA1774-QR	TRANSISTOR	
Q6101	SSM5G01TU	MOS FET	
Q6201	SSM5G01TU	MOS FET	
Q6301	FDC6506P	MOS FET	
Q6401	SSM5G01TU	MOS FET	
Q6501	SSM5G01TU	MOS FET	
Q6608	DTC144EE	DIGI TRANSISTOR	
Q6621	HN1C01FU/G	PAIR TRANSISTOR	
Q6622	2SA1577-R	TRANSISTOR	
Q6701	TPC6102	MOS FET	
Q6802	DTA113ZU	DIGI TRANSISTOR	
Q6811	2SA1577-R	TRANSISTOR	
Q7011	PUMX1	PAIR TRANSISTOR	
Q7013	PUMX1	PAIR TRANSISTOR	
Q7015	PUMX1	PAIR TRANSISTOR	
Q7301	2SA1774-QR	TRANSISTOR	
Q7305	DTC144EE	DIGI TRANSISTOR	
Q9001	HN1B01FU/G	PAIR TRANSISTOR	
Q9002	HN1B01FU/G	PAIR TRANSISTOR	
Q9004	2SC4617-QR	TRANSISTOR	
Q9005	2SC4617-QR	TRANSISTOR	
Q9201	2SC4617-QR	TRANSISTOR	
Q9202	2SC4617-QR	TRANSISTOR	
Q9203	2SC4617-QR	TRANSISTOR	
Q9204	2SC4617-QR	TRANSISTOR	
R101	NRSA63J-104X	MG RESISTOR	
R102	NRSA63J-0R0X	MG RESISTOR	
R103	NRSA63J-0R0X	MG RESISTOR	
R105	NRSA63J-103X	MG RESISTOR	
R106	NRSA63J-102X	MG RESISTOR	
R107	NRVA63D-153X	CMF RESISTOR	
R108	NRVA63D-243X	CMF RESISTOR	
R109	NRVA63D-183X	CMF RESISTOR	
R110	NRSA63J-103X	MG RESISTOR	
R111	NRSA63J-273X	MG RESISTOR	
R112	NRSA63J-331X	MG RESISTOR	
R113	NRSA63J-562X	MG RESISTOR	
R114	NRSA63J-821X	MG RESISTOR	
R115	NRSA63J-101X	MG RESISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
R117	NRSA63J-102X	MG RESISTOR	
R118	NRSA63J-103X	MG RESISTOR	
R119	NRSA63J-103X	MG RESISTOR	
R120	NRSA63J-273X	MG RESISTOR	
R121	NRSA63J-273X	MG RESISTOR	
R122	NRSA63J-393X	MG RESISTOR	
R125	NRSA63J-273X	MG RESISTOR	
R126	NRSA63J-153X	MG RESISTOR	
R127	NRSA63J-221X	MG RESISTOR	
R128	NRSA63J-102X	MG RESISTOR	
R129	NRSA63J-102X	MG RESISTOR	
R130	NRSA63J-105X	MG RESISTOR	
R136	NRSA63J-474X	MG RESISTOR	
R138	NRSA63J-473X	MG RESISTOR	
R139	NRSA63J-104X	MG RESISTOR	
R140	NRSA63J-753X	MG RESISTOR	
R141	NRSA63J-334X	MG RESISTOR	
R142	NRSA63J-103X	MG RESISTOR	
R143	NRSA63J-105X	MG RESISTOR	
R144	NRSA63J-221X	MG RESISTOR	
R145	NRSA63J-222X	MG RESISTOR	
R146	NRSA63J-222X	MG RESISTOR	
R147	NRSA63J-472X	MG RESISTOR	
R148	NRSA63J-222X	MG RESISTOR	
R149	NRSA63J-222X	MG RESISTOR	
R150	NRSA63J-222X	MG RESISTOR	
R151	NRSA63J-222X	MG RESISTOR	
R152	NRSA63J-474X	MG RESISTOR	
R153	NRSA63J-474X	MG RESISTOR	
R154	NRSA63J-222X	MG RESISTOR	
R155	NRSA63J-104X	MG RESISTOR	
R156	NRSA63J-102X	MG RESISTOR	
R157	NRSA63J-0R0X	MG RESISTOR	
R158	NRSA63J-222X	MG RESISTOR	
R159	NRSA63J-222X	MG RESISTOR	
R160	NRSA63J-104X	MG RESISTOR	
R162	NRSA63J-472X	MG RESISTOR	
R163	NRSA63J-103X	MG RESISTOR	
R164	NRSA63J-221X	MG RESISTOR	
R165	NRSA63J-151X	MG RESISTOR	
R166	NRSA63J-105X	MG RESISTOR	
R167	NRSA63J-0R0X	MG RESISTOR	
R168	NRSA63J-0R0X	MG RESISTOR	
R169	NRSA63J-331X	MG RESISTOR	
R170	NRSA63J-473X	MG RESISTOR	
R171	NRSA63J-222X	MG RESISTOR	
R172	NRSA63J-222X	MG RESISTOR	
R176	NRSA63J-474X	MG RESISTOR	
R177	NRSA63J-474X	MG RESISTOR	
R178	NRSA63J-474X	MG RESISTOR	
R179	NRSA63J-221X	MG RESISTOR	
R180	NRSA63J-221X	MG RESISTOR	
R181	NRSA63J-0R0X	MG RESISTOR	
R182	NRSA63J-105X	MG RESISTOR	NV-VZ55EG/ / EGM

Ref. No.	Part No.	Part Name & Description	Remarks
R183	NRSA63J-105X	MG RESISTOR	
R185	NRSA63J-0R0X	MG RESISTOR	
R188	NRSA63J-472X	MG RESISTOR	
R189	NRSA63J-331X	MG RESISTOR	
R190	NRSA63J-105X	MG RESISTOR	
R1601	NRV142F-R33X	CMF RESISTOR	
R1602	NRV142F-R33X	CMF RESISTOR	
R1603	NRSA63J-153X	MG RESISTOR	
R1604	NRSA63J-153X	MG RESISTOR	
R1605	NRSA63J-102X	MG RESISTOR	
R1606	NRSA63J-104X	MG RESISTOR	
R1607	NRSA63J-471X	MG RESISTOR	
R1608	NRSA63J-154X	MG RESISTOR	
R1609	NRSA63J-471X	MG RESISTOR	
R1610	NRSA63J-104X	MG RESISTOR	
R1611	NRSA63J-153X	MG RESISTOR	
R1612	NRSA63J-153X	MG RESISTOR	
R1613	NRSA63J-104X	MG RESISTOR	
R1615	NRSA63J-152X	MG RESISTOR	
R1616	NRSA63J-152X	MG RESISTOR	
R1617	NRSA63J-153X	MG RESISTOR	
R1618	NRSA63J-153X	MG RESISTOR	
R1619	NRSA63J-334X	MG RESISTOR	
R1620	NRSA63J-221X	MG RESISTOR	
R1621	NRSA63J-331X	MG RESISTOR	
R1622	NRSA63J-221X	MG RESISTOR	
R1623	NRSA63J-0R0X	MG RESISTOR	
R1624	NRSA63J-333X	MG RESISTOR	
R1625	NRSA63J-123X	MG RESISTOR	
R1626	NRSA63J-103X	MG RESISTOR	
R1627	NRSA63J-223X	MG RESISTOR	
R1628	NRSA63J-103X	MG RESISTOR	
R2001	NRSA63J-104X	MG RESISTOR	
R2002	NRSA63J-332X	MG RESISTOR	
R2003	NRSA63J-102X	MG RESISTOR	
R2004	NRSA63J-681X	MG RESISTOR	
R2005	NRSA63J-272X	MG RESISTOR	
R2006	NRSA63J-102X	MG RESISTOR	
R2011	NRSA63J-101X	MG RESISTOR	
R2012	NRSA63J-101X	MG RESISTOR	
R2021	NRSA63J-103X	MG RESISTOR	
R2022	NRSA63J-334X	MG RESISTOR	
R2023	NRSA63J-820X	MG RESISTOR	
R2024	NRSA63J-183X	MG RESISTOR	
R2025	NRSA63J-823X	MG RESISTOR	
R2027	NRSA63J-102X	MG RESISTOR	
R2028	NRSA63J-102X	MG RESISTOR	
R2030	NRSA63J-104X	MG RESISTOR	
R2031	NRSA63J-332X	MG RESISTOR	
R2051	NRSA63J-102X	MG RESISTOR	
R2071	NRSA63J-473X	MG RESISTOR	
R2072	NRSA63J-562X	MG RESISTOR	
R2401	NRSA63J-392X	MG RESISTOR	
R2402	NRSA63J-222X	MG RESISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
R2403	NRSA63J-103X	MG RESISTOR	
R3501	NRSA63J-221X	MG RESISTOR	
R3502	NRSA63J-102X	MG RESISTOR	
R3506	NRSA63J-102X	MG RESISTOR	
R3507	NRSA63J-101X	MG RESISTOR	
R3508	NRSA63J-153X	MG RESISTOR	
R3901	NRSA63J-100X	MG RESISTOR	
R3902	NRSA63J-101X	MG RESISTOR	
R3903	NRSA63J-182X	MG RESISTOR	
R4001	NRSA63J-102X	MG RESISTOR	
R4002	NRSA63J-105X	MG RESISTOR	
R4003	NRSA63J-563X	MG RESISTOR	
R4004	NRSA63D-153X	MG RESISTOR	
R4009	NRSA63D-153X	MG RESISTOR	
R4010	NRSA63D-153X	MG RESISTOR	
R4015	NRSA63J-0R0X	MG RESISTOR	
R4019	NRSA63D-822X	MG RESISTOR	
R4020	NRSA63D-471X	MG RESISTOR	
R4021	NRSA63D-181X	MG RESISTOR	
R4022	NRSA63D-182X	MG RESISTOR	
R4025	NRSA63D-222X	MG RESISTOR	
R4026	NRSA63J-563X	MG RESISTOR	
R4027	NRSA63J-104X	MG RESISTOR	
R4028	NRSA63J-104X	MG RESISTOR	
R4029	NRSA63J-104X	MG RESISTOR	
R4030	NRSA63J-102X	MG RESISTOR	
R4031	NRSA63J-102X	MG RESISTOR	
R4032	NRSA63J-0R0X	MG RESISTOR	
R4033	NRSA63J-392X	MG RESISTOR	
R4034	NRSA63J-332X	MG RESISTOR	
R4035	NRSA63J-332X	MG RESISTOR	
R4201	NRSA63J-103X	MG RESISTOR	
R4202	NRSA63J-0R0X	MG RESISTOR	
R4203	NRSA63J-223X	MG RESISTOR	
R4204	NRSA63J-331X	MG RESISTOR	
R4205	NRSA63J-105X	MG RESISTOR	
R4206	NRSA63J-103X	MG RESISTOR	
R4207	NRSA63J-104X	MG RESISTOR	
R4208	NRSA63J-472X	MG RESISTOR	
R4209	NRSA63J-104X	MG RESISTOR	
R4210	NRSA63J-105X	MG RESISTOR	
R4211	NRSA63J-183X	MG RESISTOR	
R4214	NDC31HJ-101X	CAPACITOR	
R4215	NRSA63J-683X	MG RESISTOR	
R4216	NRSA63J-103X	MG RESISTOR	
R4217	NRSA63J-102X	MG RESISTOR	
R4218	NRSA63J-102X	MG RESISTOR	
R4219	NRSA63J-104X	MG RESISTOR	
R4220	NRSA63J-681X	MG RESISTOR	
R4221	NRSA63J-104X	MG RESISTOR	
R4222	NRSA63J-823X	MG RESISTOR	
R4223	NRSA63J-303X	MG RESISTOR	
R4224	NRSA63J-223X	MG RESISTOR	
R4251	NRSA63J-182X	MG RESISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
R4252	NRSA63J-103X	MG RESISTOR	
R4253	NRSA63J-103X	MG RESISTOR	
R4254	NRSA63J-684X	MG RESISTOR	
R4255	NRSA63J-222X	MG RESISTOR	
R4256	NRSA63J-824X	MG RESISTOR	
R4257	NRSA63J-822X	MG RESISTOR	
R4258	NRSA63J-104X	MG RESISTOR	
R4259	NRSA63J-683X	MG RESISTOR	
R4262	NRSA63J-302X	MG RESISTOR	
R4501	NRSA63J-4R7X	MG RESISTOR	⚠
R4502	NRSA63J-4R7X	MG RESISTOR	⚠
R4503	NRSA63J-4R7X	MG RESISTOR	⚠
R4504	NRSA63J-4R7X	MG RESISTOR	⚠
R4505	NRSA63J-101X	MG RESISTOR	
R4507	NRSA63J-103X	MG RESISTOR	
R4508	NRSA63J-103X	MG RESISTOR	
R4510	NRSA63J-102X	MG RESISTOR	
R4511	NRSA63J-222X	MG RESISTOR	
R4513	NRSA63J-0R0X	MG RESISTOR	
R4514	NRSA63J-223X	MG RESISTOR	
R4515	NRSA63J-182X	MG RESISTOR	
R4701	NRSA63D-112X	MG RESISTOR	
R4703	NRSA63J-681X	MG RESISTOR	
R4704	NRSA63J-122X	MG RESISTOR	
R4706	NRSA63D-680X	MG RESISTOR	
R4707	NRSA63D-751X	MG RESISTOR	
R4709	NRSA63J-681X	MG RESISTOR	
R4710	NRSA63J-122X	MG RESISTOR	
R5201	NRSA63J-243X	MG RESISTOR	
R5202	NRSA63J-220X	MG RESISTOR	
R5213	NRSA63J-101X	MG RESISTOR	
R5214	NRSA63J-101X	MG RESISTOR	
R5215	NRSA63J-104X	MG RESISTOR	
R5216	NRSA63J-100X	MG RESISTOR	
R5217	NRSA63J-104X	MG RESISTOR	
R6001	NRSA63J-104X	MG RESISTOR	
R6002	NRSA63J-333X	MG RESISTOR	
R6003	NRVA63D-103X	CMF RESISTOR	
R6004	NRVA63D-202X	CMF RESISTOR	
R6005	NRVA63D-433X	CMF RESISTOR	
R6008	NRVA63D-103X	CMF RESISTOR	
R6012	NRSA63J-103X	MG RESISTOR	
R6015	NRSA63J-104X	MG RESISTOR	
R6021	NRSA63J-222X	MG RESISTOR	
R6024	NRSA63J-224X	MG RESISTOR	
R6025	NRSA63J-104X	MG RESISTOR	
R6026	NRSA63J-104X	MG RESISTOR	
R6027	NRSA63J-104X	MG RESISTOR	
R6028	NRSA63J-104X	MG RESISTOR	
R6029	NRSA63J-104X	MG RESISTOR	
R6103	NRVA63D-223X	CMF RESISTOR	
R6104	NRVA63D-103X	CMF RESISTOR	
R6203	NRVA63D-103X	CMF RESISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
R6204	NRVA63D-123X	CMF RESISTOR	
R6303	NRVA63D-183X	CMF RESISTOR	
R6304	NRVA63D-472X	CMF RESISTOR	
R6307	NRSA63J-104X	MG RESISTOR	
R6401	NRSA63J-0R0X	MG RESISTOR	
R6501	NRSA63J-0R0X	MG RESISTOR	
R6502	NRSA63J-471X	MG RESISTOR	
R6603	NRVA63D-683X	CMF RESISTOR	
R6604	NRVA63D-392X	CMF RESISTOR	
R6605	NRSA63J-274X	MG RESISTOR	
R6606	NRSA63J-272X	MG RESISTOR	
R6612	NRSA63J-823X	MG RESISTOR	
R6613	NRSA63J-104X	MG RESISTOR	
R6614	NRSA63J-153X	MG RESISTOR	
R6616	NRSA63J-102X	MG RESISTOR	
R6622	NRVA63D-104X	CMF RESISTOR	
R6623	NRVA63D-473X	CMF RESISTOR	
R6624	NRSA63J-273X	MG RESISTOR	
R6625	NRSA63J-822X	MG RESISTOR	
R6626	NRVA63D-273X	CMF RESISTOR	
R6627	NRVA63D-183X	CMF RESISTOR	
R6702	NRSA63J-0R0X	MG RESISTOR	
R6703	NRVA63D-823X	CMF RESISTOR	
R6704	NRVA63D-123X	CMF RESISTOR	
R6705	NRVA63D-154X	CMF RESISTOR	
R6706	NRZ0058-R20X	MG RESISTOR	
R6710	NRVA63D-823X	CMF RESISTOR	
R6711	NRVA63D-333X	CMF RESISTOR	
R6712	NRSA63J-224X	MG RESISTOR	
R6713	NRSA63J-562X	MG RESISTOR	
R6714	NRSA63J-0R0X	MG RESISTOR	
R6801	NRSA63J-0R0X	MG RESISTOR	
R6802	NRSA63J-104X	MG RESISTOR	
R6811	NRSA63J-101X	MG RESISTOR	
R6812	NRSA63J-222X	MG RESISTOR	
R6961	NRSA63J-223X	MG RESISTOR	
R7077	NRVA63D-123X	CMF RESISTOR	
R7086	NRVA63D-123X	CMF RESISTOR	
R7091	NRVA63D-123X	CMF RESISTOR	
R7096	NRVA63D-123X	CMF RESISTOR	
R7110	NRSA63J-105X	MG RESISTOR	
R7112	NRVA63D-332X	CMF RESISTOR	
R7114	NRVA63D-223X	CMF RESISTOR	
R7116	NRVA63D-332X	CMF RESISTOR	
R7118	NRVA63D-223X	CMF RESISTOR	
R7120	NRVA63D-332X	CMF RESISTOR	
R7122	NRVA63D-223X	CMF RESISTOR	
R7124	NRVA63D-103X	CMF RESISTOR	
R7127	NRVA63D-103X	CMF RESISTOR	
R7128	NRVA63D-103X	CMF RESISTOR	
R7129	NRVA63D-103X	CMF RESISTOR	
R7130	NRVA63D-103X	CMF RESISTOR	
R7131	NRVA63D-103X	CMF RESISTOR	
R7132	NRVA63D-103X	CMF RESISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
R7135	NRSA63J-0R0X	MG RESISTOR	
R7141	NRSA63J-0R0X	MG RESISTOR	
R7302	NRSA63J-271X	MG RESISTOR	
R7303	NRSA63J-122X	MG RESISTOR	
R7305	NRVA63D-561X	CMF RESISTOR	
R7306	NRSA63J-0R0X	MG RESISTOR	
R7307	NRVA63D-222X	CMF RESISTOR	
R7308	NRSA63J-112X	MG RESISTOR	
R7309	NRSA63J-0R0X	MG RESISTOR	
R7312	NRSA63J-0R0X	MG RESISTOR	
R7315	NRVA63D-103X	CMF RESISTOR	
R7316	NRVA63D-333X	CMF RESISTOR	
R7322	NRSA63J-121X	MG RESISTOR	
R7325	NRSA63J-0R0X	MG RESISTOR	
R7329	NRSA63J-0R0X	MG RESISTOR	
R7336	NRSA63J-0R0X	MG RESISTOR	
R9001	NRSA63J-182X	MG RESISTOR	
R9002	NRSA63J-391X	MG RESISTOR	
R9003	NRSA63J-152X	MG RESISTOR	
R9004	NRSA63J-5R6X	MG RESISTOR	
R9005	NRSA63J-152X	MG RESISTOR	
R9006	NRSA63J-5R6X	MG RESISTOR	
R9101	NRSA63J-331X	MG RESISTOR	NV-VZ55EG/ / EGM
R9102	NRSA63J-0R0X	MG RESISTOR	NV-VZ55EG/ / EGM
R9103	NRSA63J-0R0X	MG RESISTOR	NV-VZ55EG/ / EGM
R9201	NRSA63J-154X	MG RESISTOR	
R9202	NRSA63J-474X	MG RESISTOR	
R9203	NRSA63J-474X	MG RESISTOR	
R9204	NRSA63J-474X	MG RESISTOR	
R9205	NRSA63J-154X	MG RESISTOR	
R9206	NRSA63J-474X	MG RESISTOR	
R9207	NRSA63J-474X	MG RESISTOR	
R9208	NRSA63J-474X	MG RESISTOR	
R9209	NRSA63J-474X	MG RESISTOR	
RA101	NRZ0038-222X	NETWORK RESISTOR	
RA102	NRZ0038-222X	NETWORK RESISTOR	
RA103	NRZ0038-222X	NETWORK RESISTOR	
RA104	NRZ0038-222X	NETWORK RESISTOR	
RA106	NRZ0038-331X	NETWORK RESISTOR	
RA107	NRZ0038-222X	NETWORK RESISTOR	
RA108	NRZ0038-222X	NETWORK RESISTOR	
RA109	NRZ0038-474X	NETWORK RESISTOR	
RA110	NRZ0038-474X	NETWORK RESISTOR	
RA111	NRZ0038-474X	NETWORK RESISTOR	
RA112	NRZ0038-104X	NETWORK RESISTOR	
RA6020	NRZ0038-102X	NETWORK RESISTOR	
SD1	LY43421-001A	SHIELD PLATE	
WR1	WJV0039-001A	E-PRIMARY WIRE	
		(JP2001/2-JP2003)	
X101	NAX0251-001X	CRYSTAL RESONATOR	

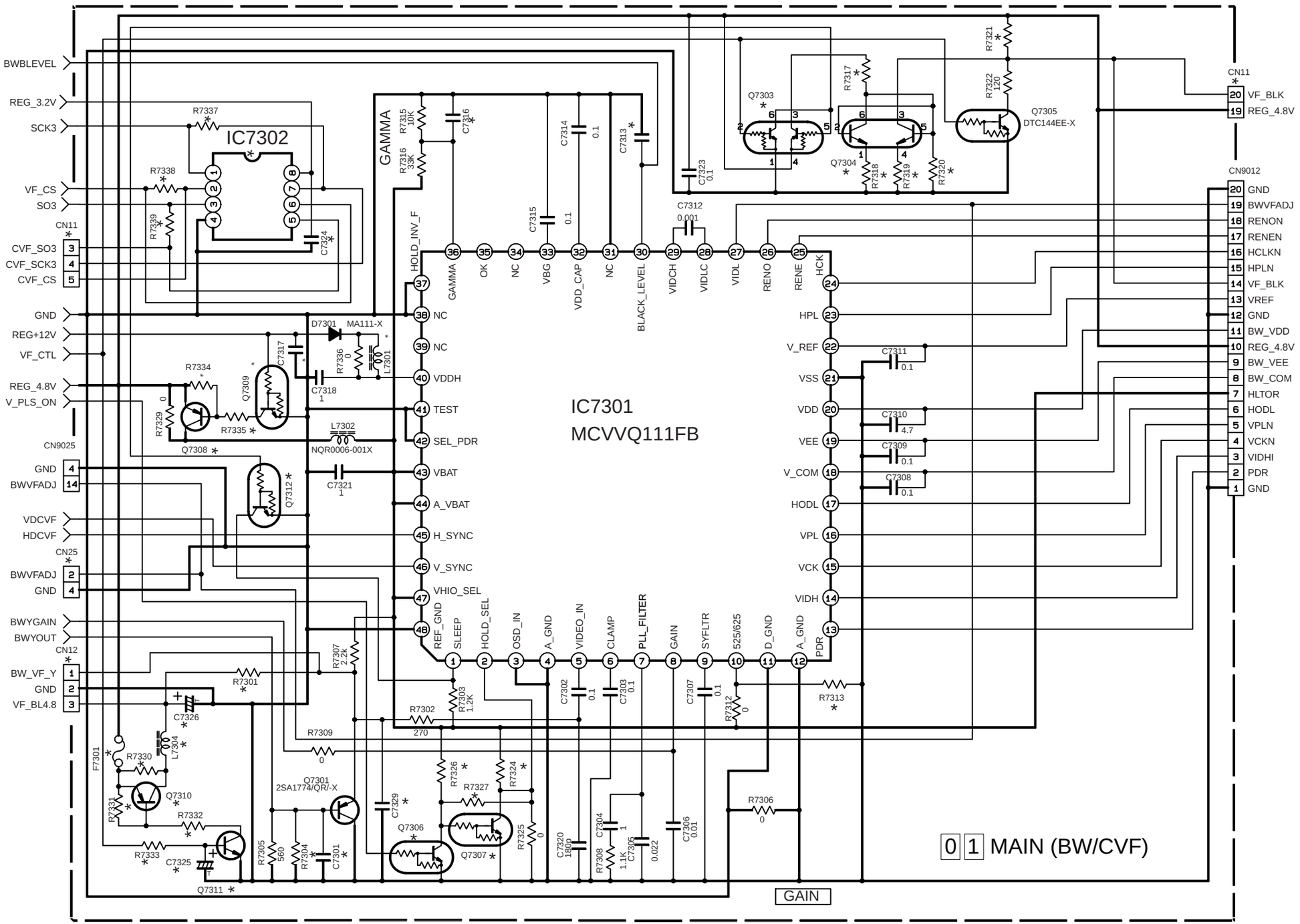
Ref. No.	Part No.	Part Name & Description	Remarks
X102	NAX0325-001X	CRYSTAL RESONATOR	
X4001	QAX0708-001	CRYSTAL RESONATOR	
■		FRONT BOARD ASSEMBLY	
PW	YB20917EC-01	FRONT BOARD ASSY	(RTL) / NV-VZ14EG/ / EGM
PW	YB20917EB-01	FRONT BOARD ASSY	(RTL) / NV-VZ14EGE,
			NV-VZ15EG/ / EGE/EGM/B/EN
PW	YB20917EA-01	FRONT BOARD ASSY	(RTL) / NV-VZ55EG/ / EGM
C9501	NDC21HJ-220X	CAPACITOR	
CN9501	QGF0512C1-10	FPC CONNECTOR	
D9501	RPM-22PB	PHOTO TRANSISTOR	
D9502	SLR-738AV-50	IR LED	
D9503	SLR-738AV-50	IR LED	
HD1	LY20820-001A	IR HOLDER	
IC9501	PIC-37043T2	IR DETECT UNIT	NV-VZ14EGE,
			NV-VZ15EG/ / EGE/EGM/B/EN
J9501	QNS0147-001	3.5 JACK	NV-VZ55EG/ / EGM
MC1	LY43405-001A	MICROPHONE	
OT1	LY32561-001A	DAMPER(MIC)	
OT2	LY43353-001A	IR SHEET	NV-VZ14EGE,
			NV-VZ15EG/ / EGE/EGM/B/EN
WR1	WJR0024-001A	E-SH C WIRE C-F, / (JP9501/2-MAIN)	
■		MONITOR BOARD ASSEMBLY	
PW	YB20919A	MONITOR BOARD ASSY	(RTL)
C7501	NCZ1016-120X	CAPACITOR	
C7502	NCB21EK-273X	CAPACITOR	
C7503	NCB31EK-103X	CAPACITOR	
C7504	NCB10JK-106X	CAPACITOR	
C7601	NBE20JM-106X	TA E CAPACITOR	
C7602	NCB31EK-103X	CAPACITOR	
C7606	NCB31EK-103X	CAPACITOR	
C7607	NBP41EM-475X	TA E CAPACITOR	
C7608	NCB31EK-103X	CAPACITOR	
C7609	NBP41CM-106X	TA E CAPACITOR	
C7610	NDC31HJ-330X	CAPACITOR	
C7611	NCB31EK-103X	CAPACITOR	
C7612	NCB31EK-103X	CAPACITOR	
C7613	NCB31EK-103X	CAPACITOR	

Ref. No.	Part No.	Part Name & Description	Remarks
C7614	NCB21CK-334X	CAPACITOR	
C7615	NDC31HJ-331X	CAPACITOR	
C7616	NDC31HJ-330X	CAPACITOR	
C7617	NDC31HJ-220X	CAPACITOR	
C7618	NCB31EK-103X	CAPACITOR	
C7619	NDC31HJ-270X	CAPACITOR	
C7620	NDC31HJ-270X	CAPACITOR	
C7621	NCB31EK-103X	CAPACITOR	
C7622	NCB11CK-225X	CAPACITOR	
C7624	NCB31EK-103X	CAPACITOR	
C7626	NBP41EM-475X	TA E CAPACITOR	
C7630	NCB31EK-103X	CAPACITOR	
CN7601	QGF0303F1-25	FFC/FPC CONNECTOR	
CN7602	QGF0508F1-24	FPC CONNECTOR	
D7601	MA365	VARI CAP DIODE	MA2Z365
D7602	RB471E	SB DIODE	
D7603	UDZS5.1B	ZENER DIODE	
D7604	MA741WA	SB DIODE	MA3J741D
F7501	NMFZ007-R40X	FUSE	⚠
FW1	QAL0396-001	FPC, / (JP7601/7602/7603-IC7604)	
IC7601	MN5814	IC	
IC7602	BA4558F	IC	C0ABBB000004
IC7604	DN8797MS	HALL IC	DN8797MS
L7501	NQLZ010-680X	COIL	
L7502	NQL03BK-100X	COIL	
L7601	NQL38DK-220X	COIL	
L7603	NQL38DK-220X	COIL	
L7605	NQL085J-4R7X	COIL	
Q7501	2SD1664-QR	TRANSISTOR	
Q7502	2SD1664-QR	TRANSISTOR	
Q7503	DTA144EE	DIGI TRANSISTOR	
Q7504	DTC144EE	DIGI TRANSISTOR	
Q7601	2SC4617-QR	TRANSISTOR	
Q7602	2SA1774-QR	TRANSISTOR	
Q7603	2SC4617-QR	TRANSISTOR	
Q7604	2SA1774-QR	TRANSISTOR	
Q7606	DTA144EE	DIGI TRANSISTOR	
Q7607	DTA144EE	DIGI TRANSISTOR	
Q7608	DTC144EE	DIGI TRANSISTOR	
R7501	NRSA63J-102X	MG RESISTOR	
R7502	NRSA63J-102X	MG RESISTOR	
R7503	NRSA63J-102X	MG RESISTOR	
R7601	NRSA63D-103X	MG RESISTOR	
R7602	NRSA63D-432X	MG RESISTOR	
R7603	NRSA63D-333X	MG RESISTOR	
R7604	NRSA63D-123X	MG RESISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
R7605	NRSA63D-123X	MG RESISTOR	
R7606	NRSA63D-153X	MG RESISTOR	
R7607	NRSA63D-153X	MG RESISTOR	
R7608	NRSA63J-682X	MG RESISTOR	
R7610	NRSA63J-104X	MG RESISTOR	
R7611	NRSA63J-223X	MG RESISTOR	
R7612	NRSA63J-474X	MG RESISTOR	
R7613	NRSA63J-103X	MG RESISTOR	
R7615	NRSA63J-0R0X	MG RESISTOR	
R7617	NRSA63J-0R0X	MG RESISTOR	
R7618	NRSA63J-0R0X	MG RESISTOR	
R7621	NRSA63J-102X	MG RESISTOR	
R7624	NRSA63J-102X	MG RESISTOR	
R7625	NRSA63J-0R0X	MG RESISTOR	
R7628	NRSA63J-470X	MG RESISTOR	
R7629	NRSA63J-470X	MG RESISTOR	
R7630	NRSA63J-470X	MG RESISTOR	
R7631	NRSA63J-0R0X	MG RESISTOR	
R7632	NRSA02J-0R0X	MG RESISTOR	
R7633	NRSA63J-104X	MG RESISTOR	
R7635	NRSA63J-223X	MG RESISTOR	
R7636	NRSA63J-223X	MG RESISTOR	
R7637	NRSA63J-682X	MG RESISTOR	
R7638	NRSA63J-223X	MG RESISTOR	
R7639	NRSA63J-223X	MG RESISTOR	
R7640	NRSA02J-122X	MG RESISTOR	
R7641	NRSA02J-821X	MG RESISTOR	
R7642	NRSA63J-0R0X	MG RESISTOR	
R7643	NRSA63J-123X	MG RESISTOR	
R7644	NRSA63J-123X	MG RESISTOR	
R7645	NRSA63J-123X	MG RESISTOR	
R7646	NRSA63J-332X	MG RESISTOR	
R7648	NRSA63J-103X	MG RESISTOR	
R7650	NRSA63J-103X	MG RESISTOR	
R7651	NRSA63J-0R0X	MG RESISTOR	
R7654	NRSA63J-103X	MG RESISTOR	
T7501	NQS0056-001X	SW TRANSF	

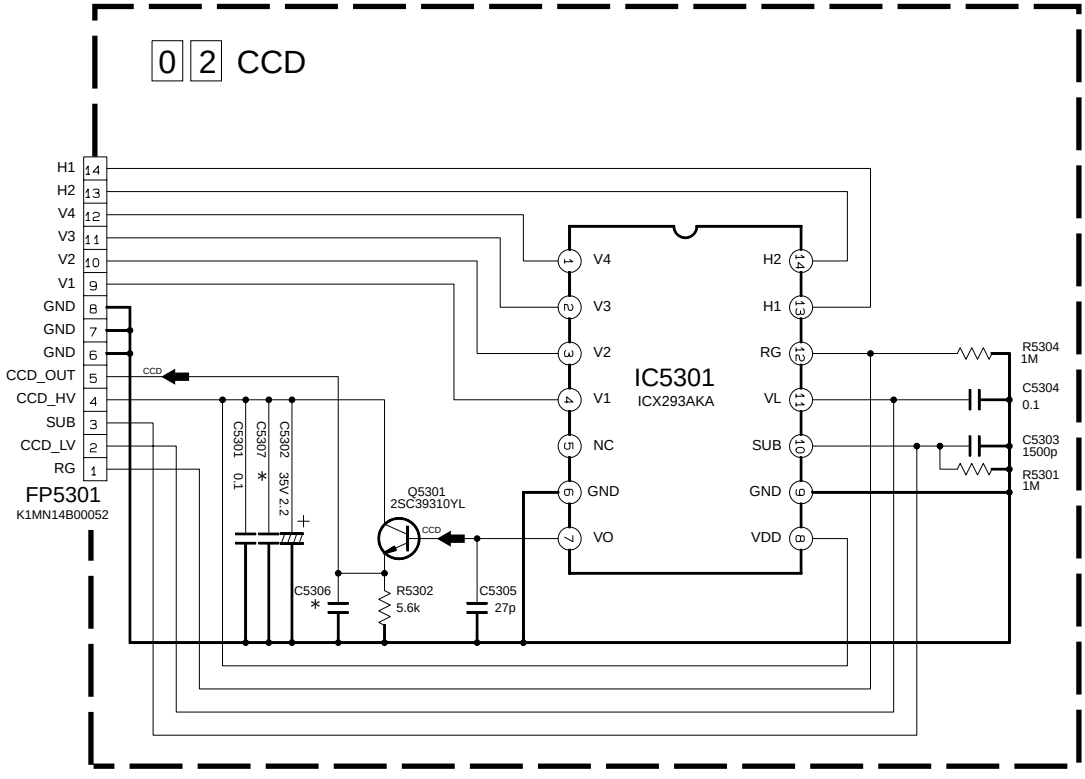
11. Schematic Diagram for printing with A4 size

NOTES :
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".
- When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



NOTE : The parts with marked (*) is not used.

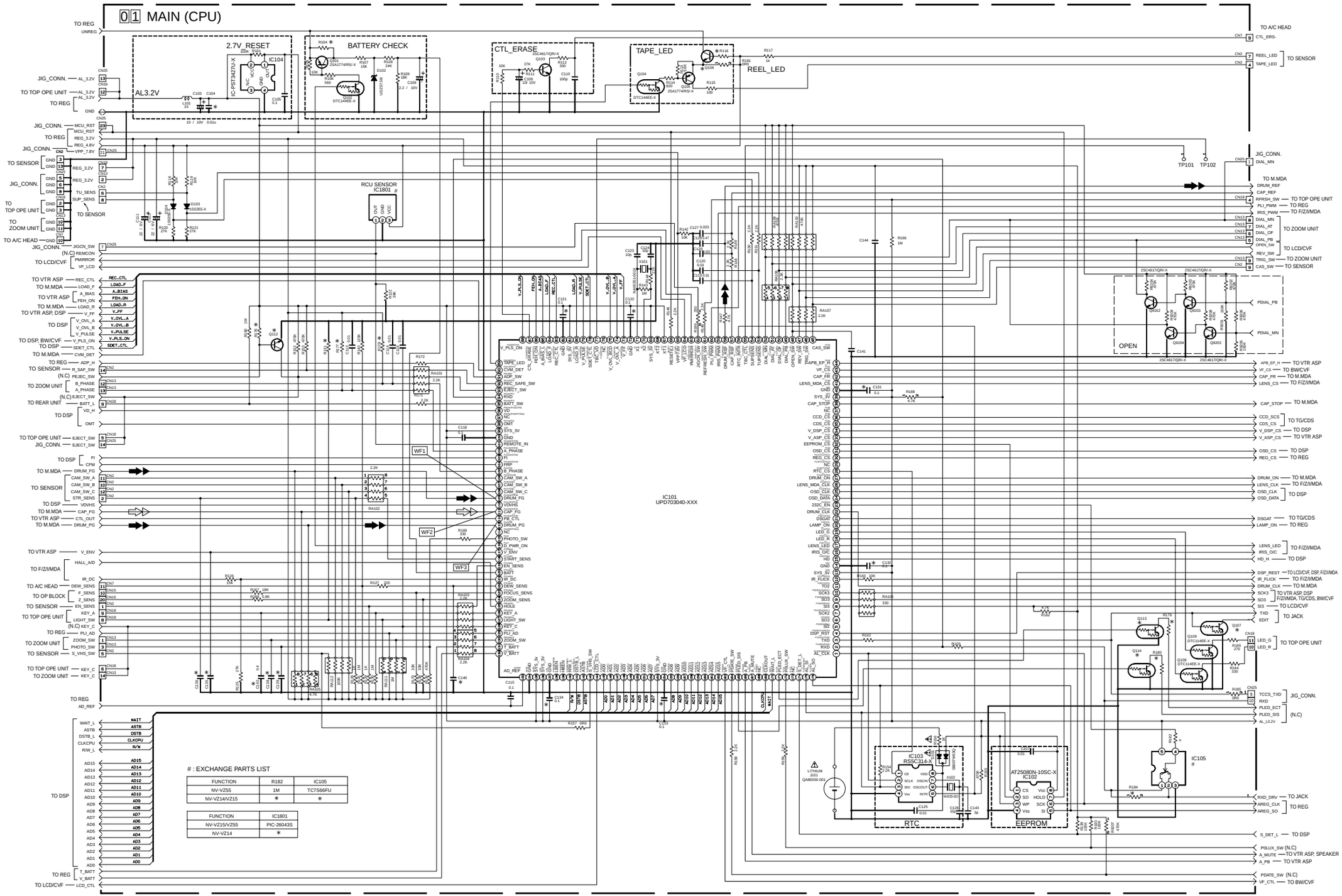
NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



NOTE : The parts with marked (*) is not used.

NOTES :
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".
- When ordering parts, be sure to order according to the Part Number indicated in the Parts List.

01 MAIN (CPU)

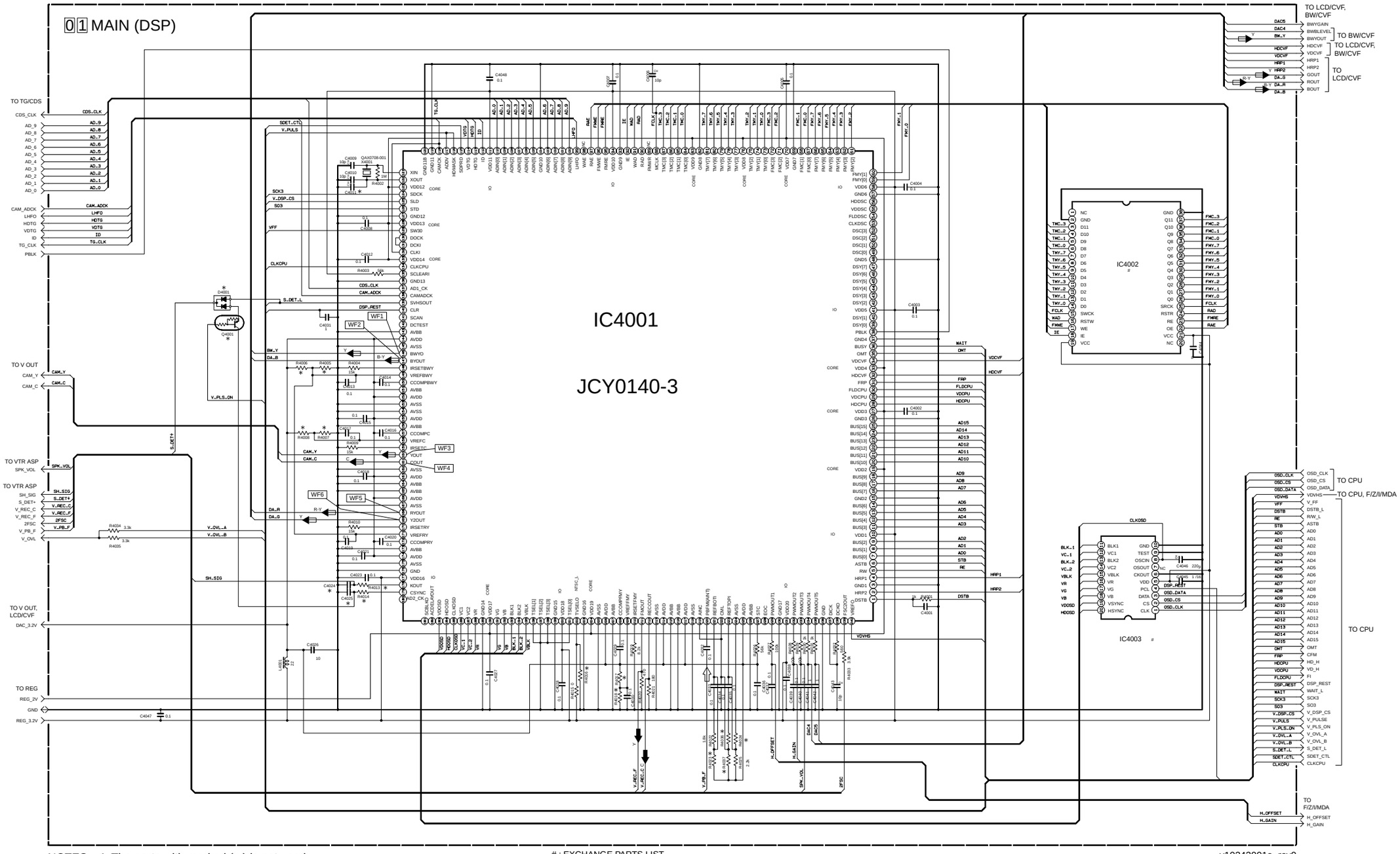


NOTES :
1. The parts with marked (*) is not used.
2. For CPU waveforms, please refer to "WAVEFORM TABLE".

y10242001a-rev0

NV-VZ14EG/EGE/EGM, NV-VZ15B/EG/EGE/EGM/EN, NV-VZ55EG/EGM
CPU SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



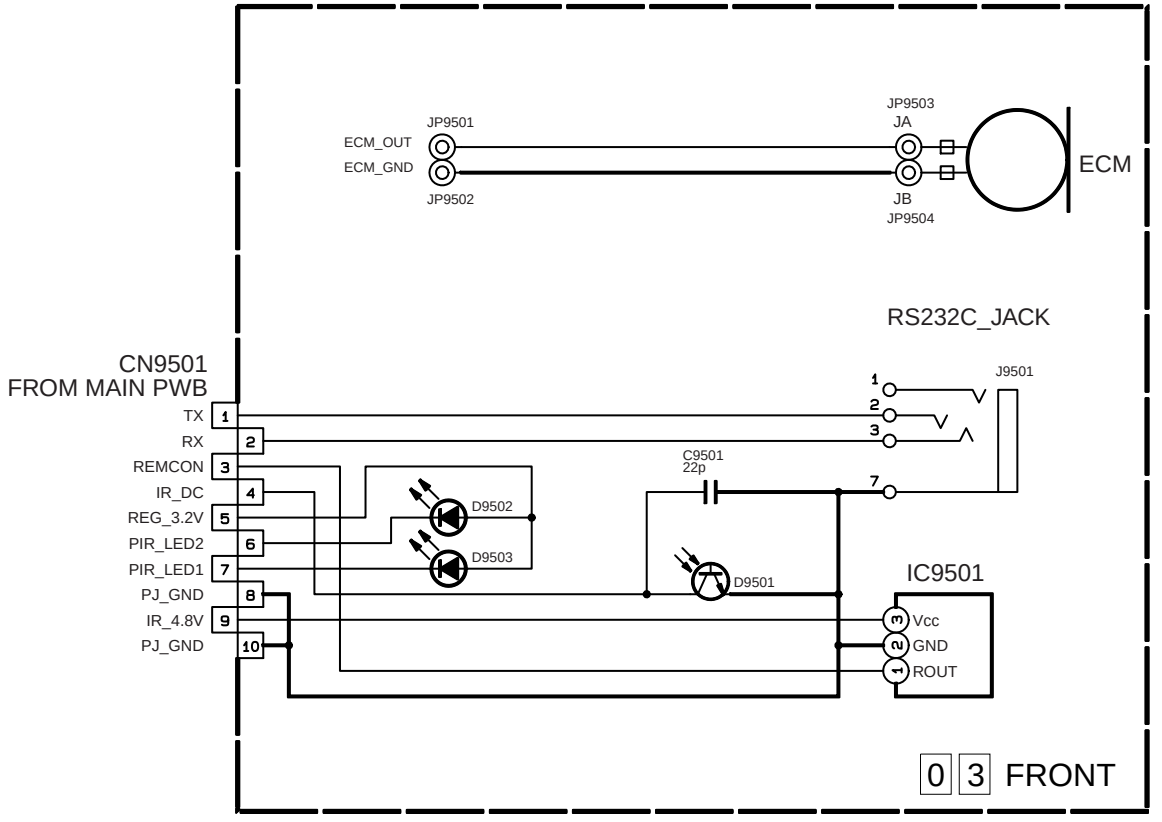
NOTES : 1. The parts with marked (∗) is not used.
2. For DSP waveforms, please refer to WAVEFORM TABLE.

y10243001a_rev0

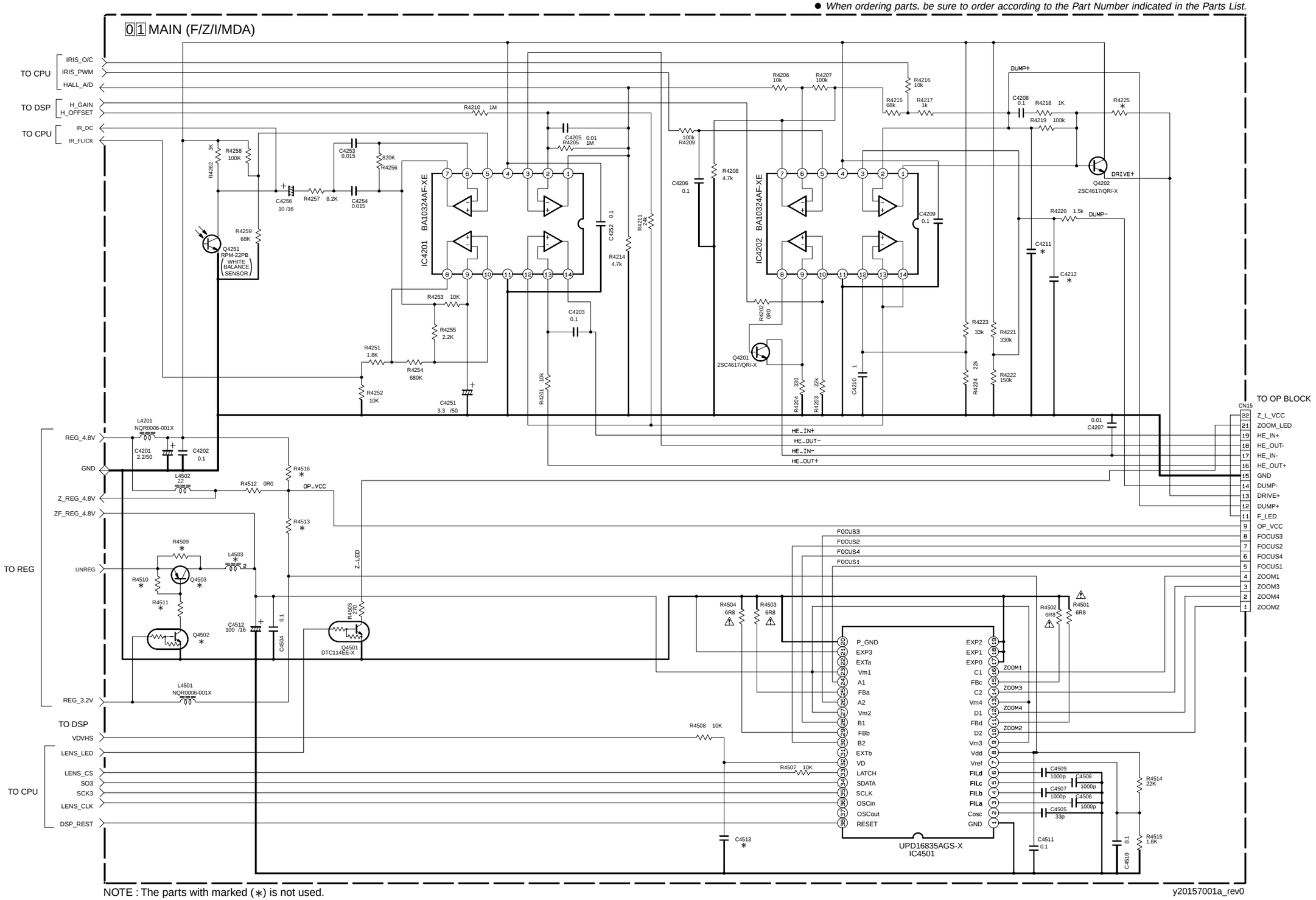
: EXCHANGE PARTS LIST

	IC4002	C4044
NV-VZ55	Z4C2973-32-X	1
NV-VZ14/VZ15	∗	∗

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



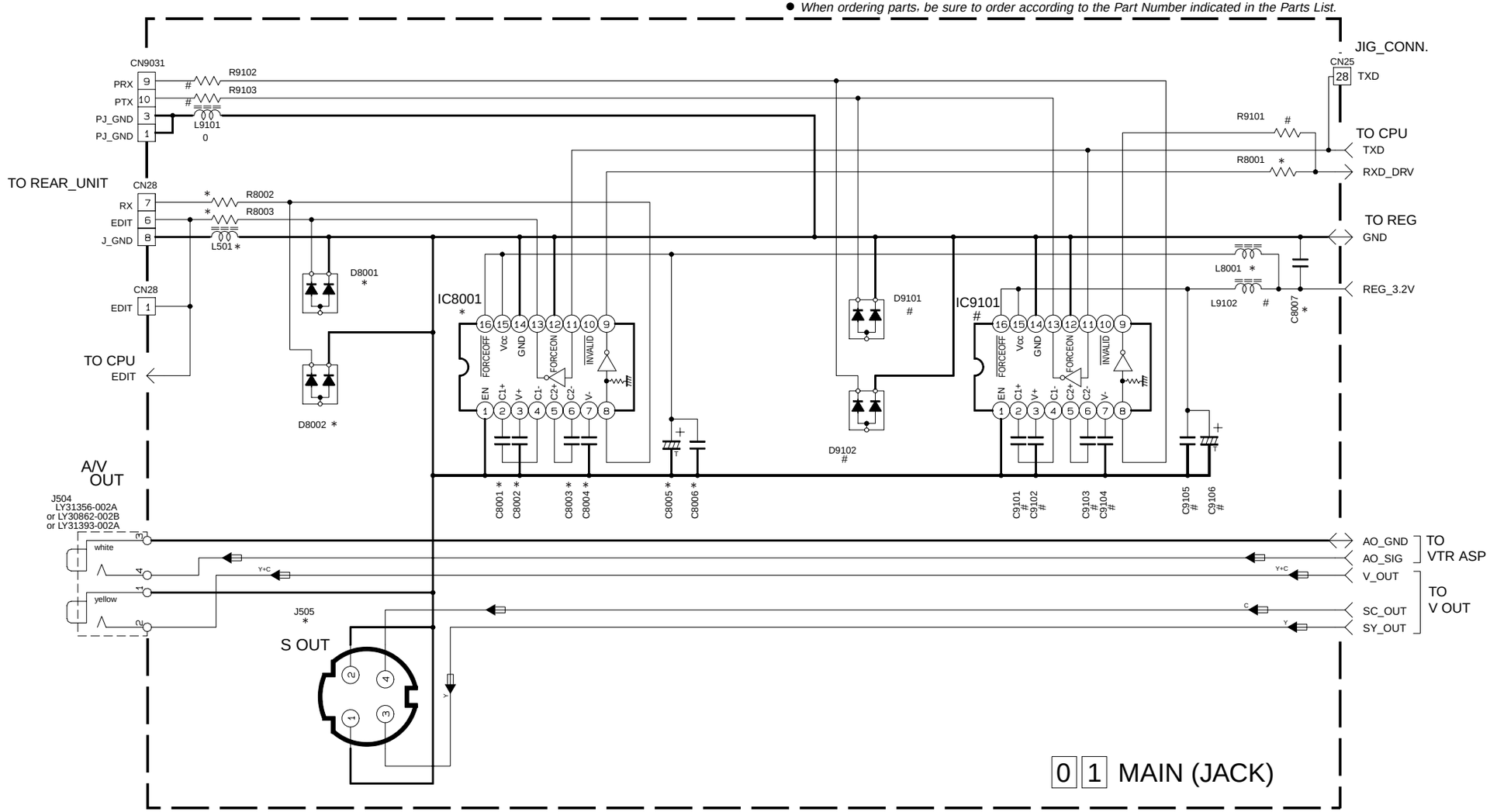
NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".
● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



NOTE : The parts with marked (∗) is not used.

y20157001a_rev0

NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".
● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



NOTE : The parts with marked (∗) is not used.

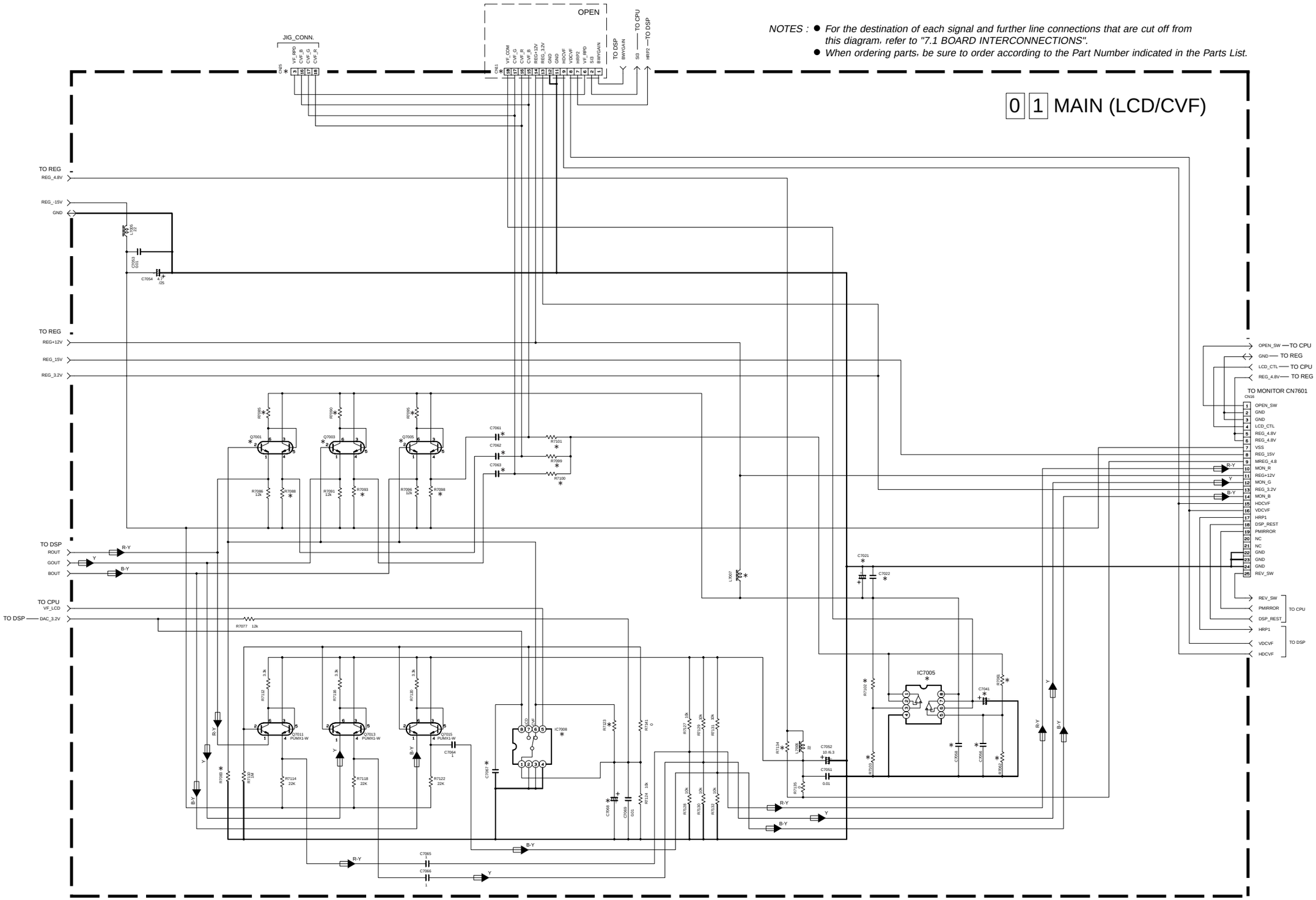
y30154001a_rev0

Exchange Parts List

	NV-VZ55	NV-VZ14/VZ15
IC9101	MAX3221CAE-X	∗
R9101	330	∗
R9102	0	∗
R9103	0	∗
C9101	0.1	∗
C9102	0.1	∗
C9103	0.1	∗
C9104	0.1	∗
C9105	10/6.3	∗
C9106	0.1	∗
D9101	EMZ6.8N-X	∗
D9102	EMZ6.8N-X	∗
L9102	22	∗

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

01 MAIN (LCD/CVF)

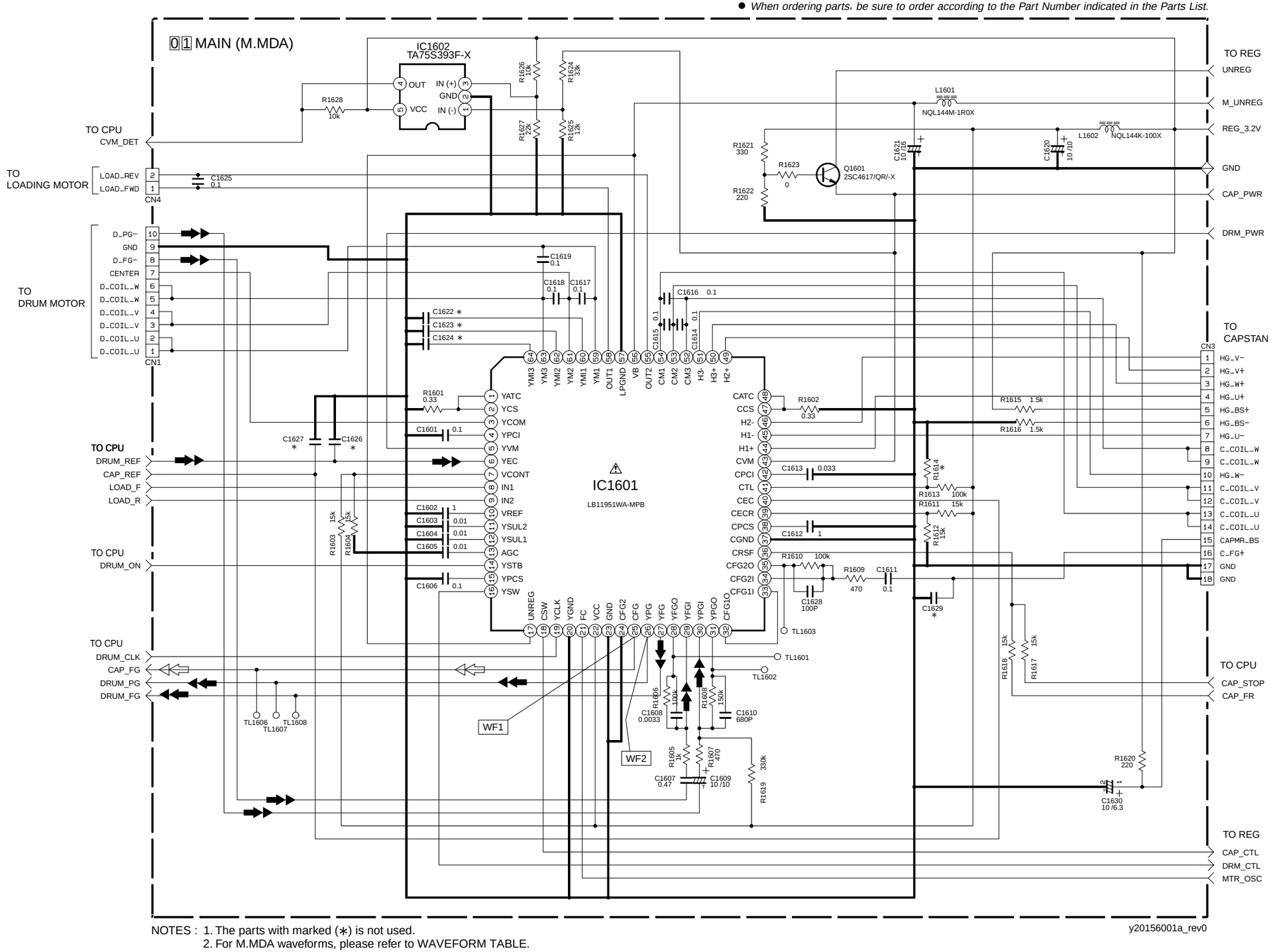


NOTE : The parts with marked (∗) is not used.

y10244001a_rev0

NV-VZ14EG/EGE/EGM, NV-VZ15B/EG/EGE/EGM/EN, NV-VZ55EG/EGM
LCD/CVF SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



NOTES : 1. The parts with marked (＊) is not used.
2. For M.MDA waveforms, please refer to WAVEFORM TABLE.

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

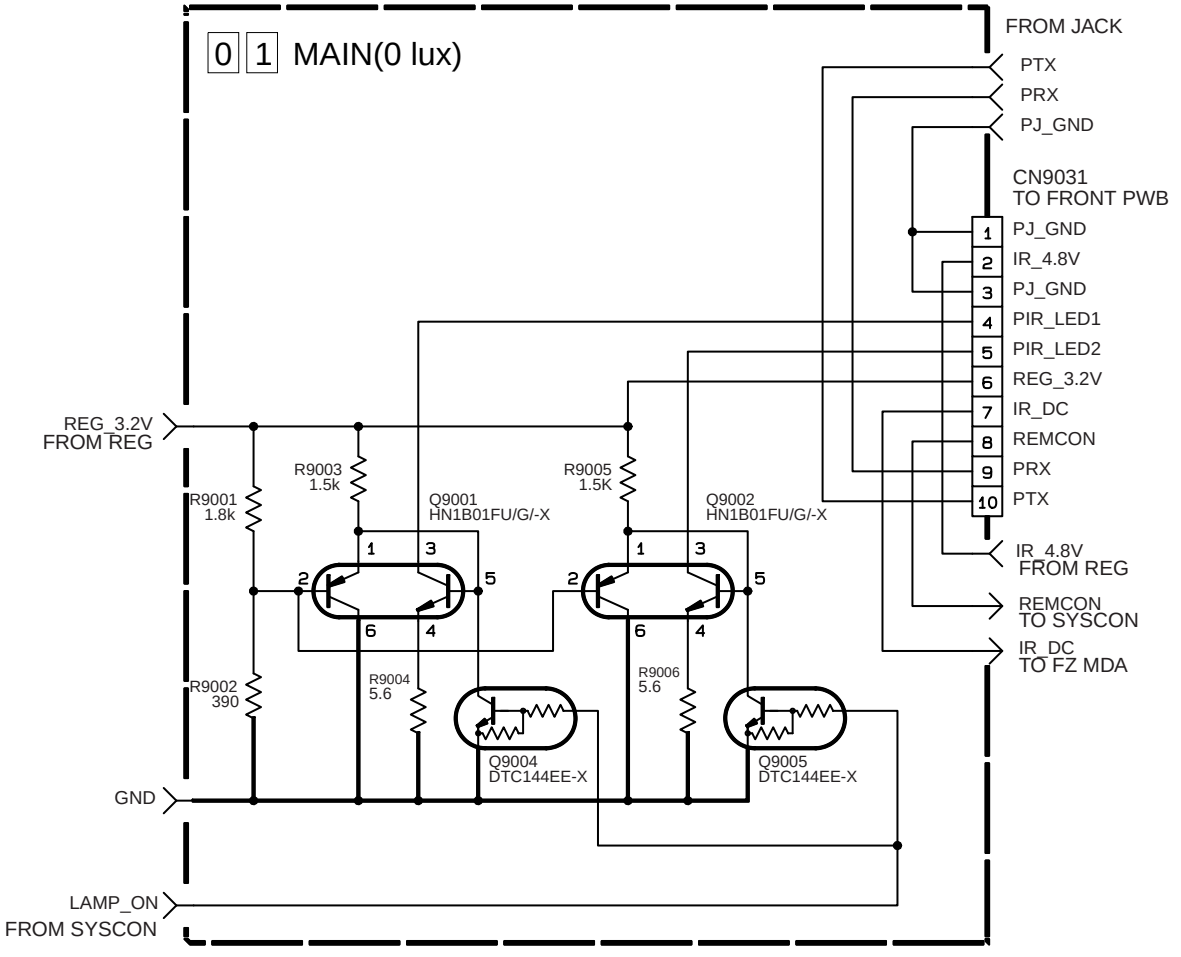
07 MONITOR

	R7649	R7650	R7646	CN7602	CN7603
Type_2.5	*	NRSA63J-103X	NRSA63J-332X	QGF0508F1-24X	*
Type_3.0	NRSA63J-333X	*	NRSA63J-472X	*	QGF0508F1-24X

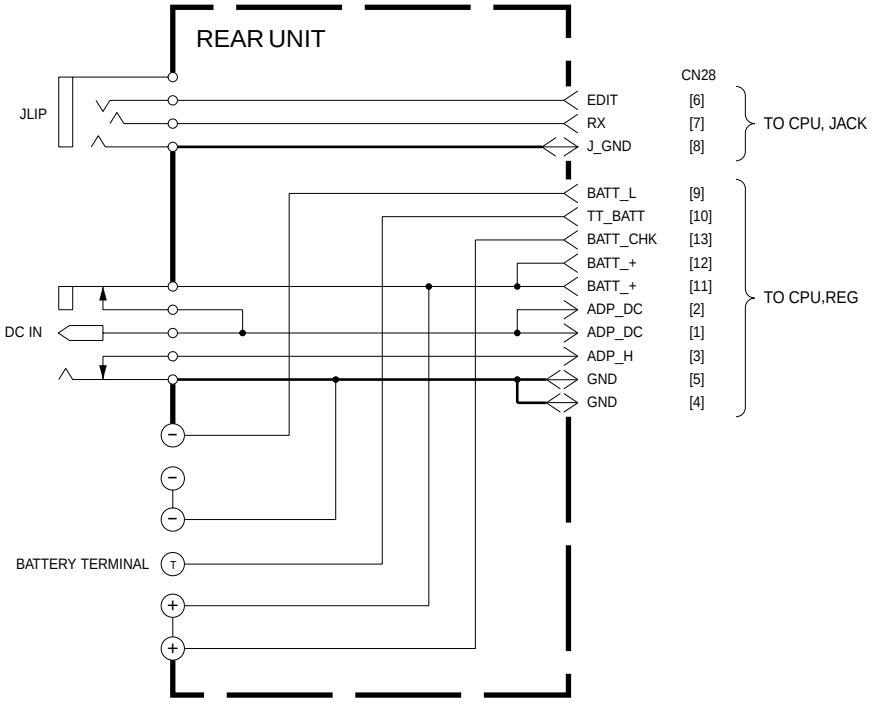
NOTE : The parts with marked (*) is not used.

NV-VZ14EG/EGE/EGM, NV-VZ15B/EG/EGE/EGM/EN, NV-VZ55EG/EGM
MONITOR SCHEMATIC DIAGRAM

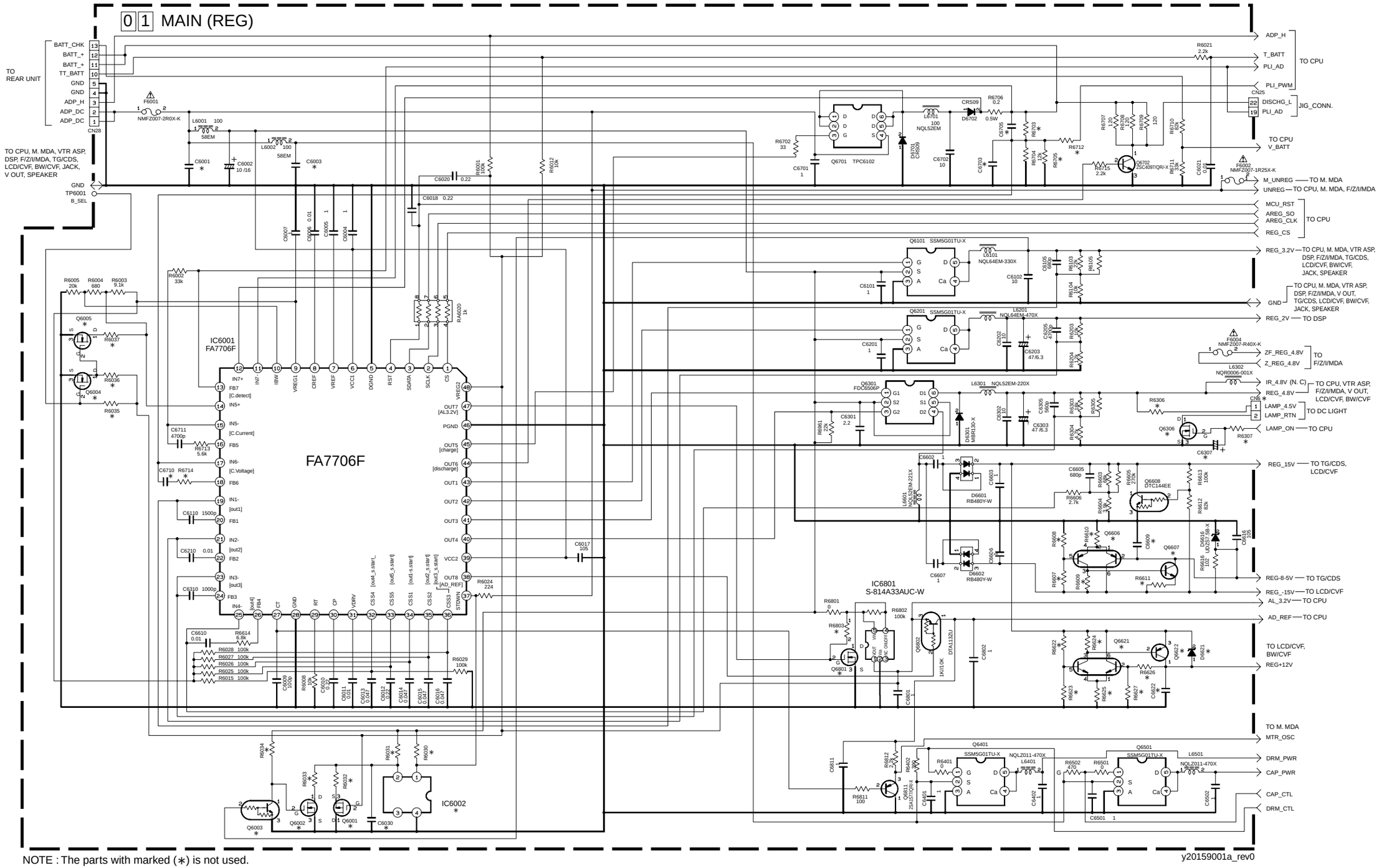
NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



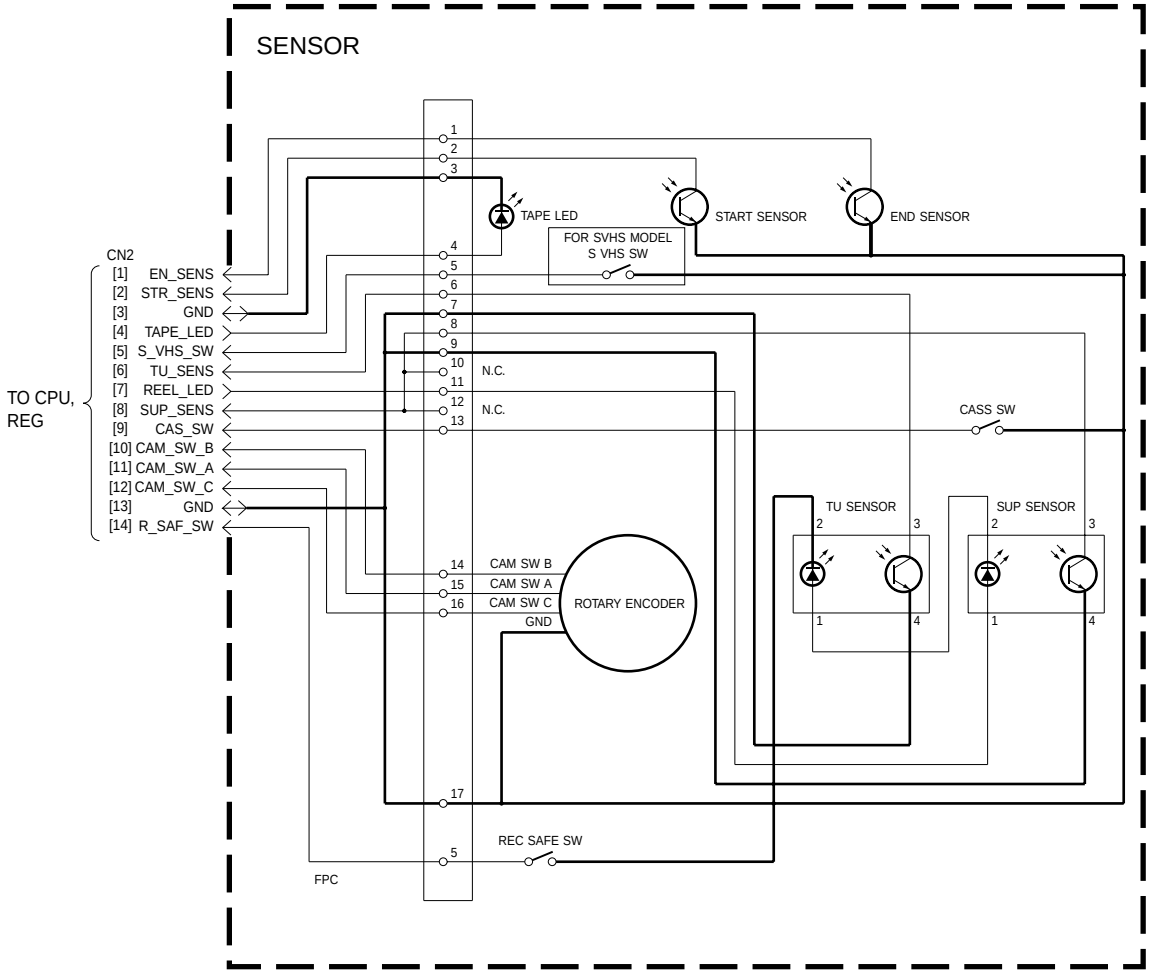
NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".
● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.

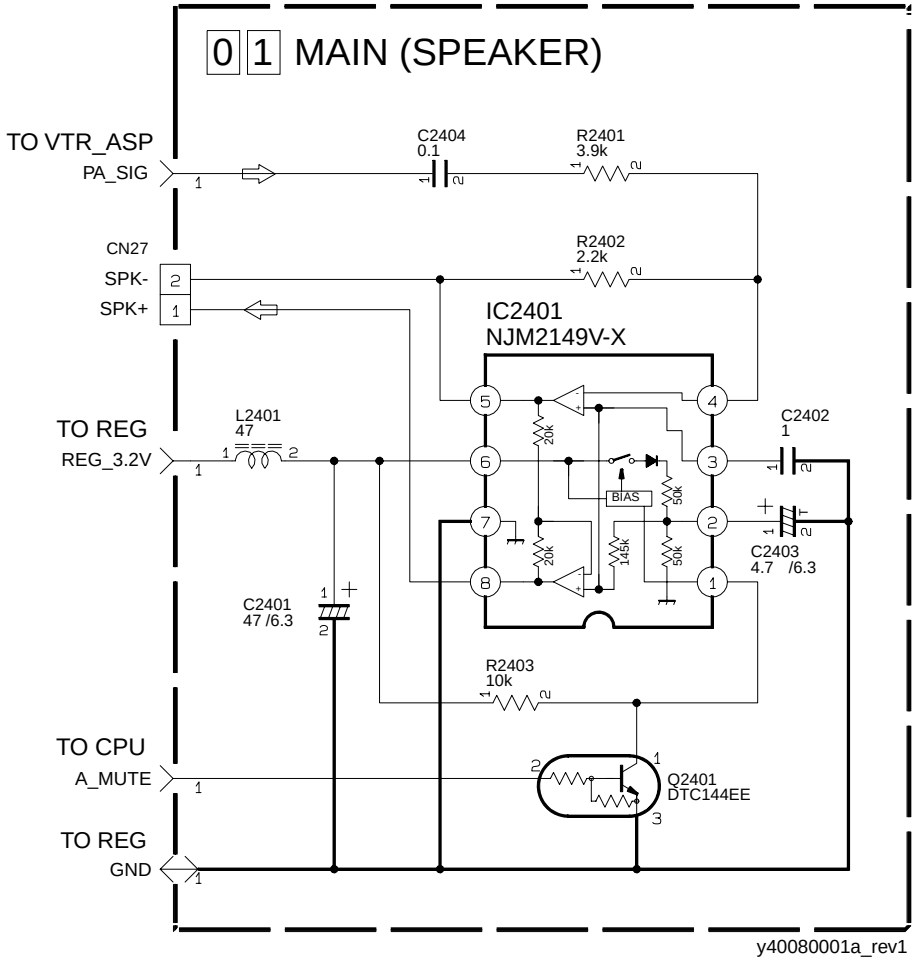


NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



NV-VZ14EG/EGE/EGM, NV-VZ15B/EG/EGE/EGM/EN, NV-VZ55EG/EGM
SENSOR SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

0 1 MAIN (TG/CDS)

TO CCD
CN5301
CN22

H1 1
H2 2
V4 3
V3 4
V2 5
V1 6
GND 7
GND 8
GND 9
CCD_OUT 10
CCD_HV 11
SUB 12
CCD_LV 13
RG 14

C5218 0.1
C5231 *

IC5202
JCY0098
TG+V_DRIVER

NC 25
NC 26
VM 27
V2 28
V4 29
V1 30
VH 31
V3 32
SUB 33
VL 34
TESTEN 35
NC 36

C5230 0.1
C5229 1 /25

R5217 100k
D5201 1SS355-X

NC 24
VSS4 23
H2 22
H1 21
VDD4 20
VDD3 19
RG 18
XRS 17
XSHD 16
XSHP 15
VSS3 14
VDD2 13

C5232 10p
C5233 10p
C5228 0.1
C5227 0.1
C5234 10p
C5235 10p
C5236 10p

VICK 12 NC
CCDCKH 11 NC
CLDCLK 10 NC
VDD1 9 NC
CK 8 NC
VSS1 7 NC
PBLK 6 NC
CLPDM 5 NC
OBCLP 4 NC
ID 3 NC
WEN 2 NC
CKINH 1 NC

XSG1 37
VX1 38
SSK 39
SSI 40
SEN 41
RST 42
VSS4 43
VDD5 44
VGAT 45
DSGAT 46
AHD 47
VHD 48
NC NC

C5237 10p
C5225 0.1

R5211 *
R5202 22
C5213 3300p
C5211 1
C5214 0.01
C5212 1

C5210 0.1
C5209 0.01
C5208 0.01
C5207 0.01
R5201 24k

WF1
WF2

IC5201
HD49326BF
CDS+AGC+A/D

NC 25
CDSIN 26
ADCIN 27
BLKSH 28
BLKFB 29
AVSS 30
AVDD 31
VRT 32
VRB 33
VRM 34
BIAS 35
NC 36

NC 24
AVDD 23
AVSS 22
OADSW 21
PBLK 20
SPSIG 19
SPBLK 18
OBP 17
ADCLK 16
DVDD 15
DVSS 14
OADCLK 13

CDS_CLK
C5216 *

AVSS 37
AVDD 38
NC 39
AVSS 40
AVDD 41
OEB 42
CS 43
SCK 44
SDATA 45
DVDD 46
DVSS 47
DVSS 48

NC 12
D9 11
D8 10
D7 9
D6 8
D5 7
D4 6
D3 5
D2 4
D1 3
D0 2
NC 1

TO VTR ASP
V_PB_C

TO DSP
AD_9
AD_8
AD_7
AD_6
AD_5
AD_4
AD_3
AD_2
AD_1
AD_0

TO REG
REG_3.2V
L5201 47
REG_15V
L5203 22
REG-8-5V
L5202 22

C5201 *
C5219 6.8 /16
C5221 1 /16

R5215 100k
C5222 0.1
LHFO
R5214 100
R5213 100
VDTG
C5223 0.1
CAM_ADCK
R5216 10
ID
TG_CLK
PBLK
C5203 10 /6.3
C5204 *

TO DSP
PBLK
LHFO
VDTG
HDTG
ID
CDS_CLK
CAM_ADCK
TG_CLK

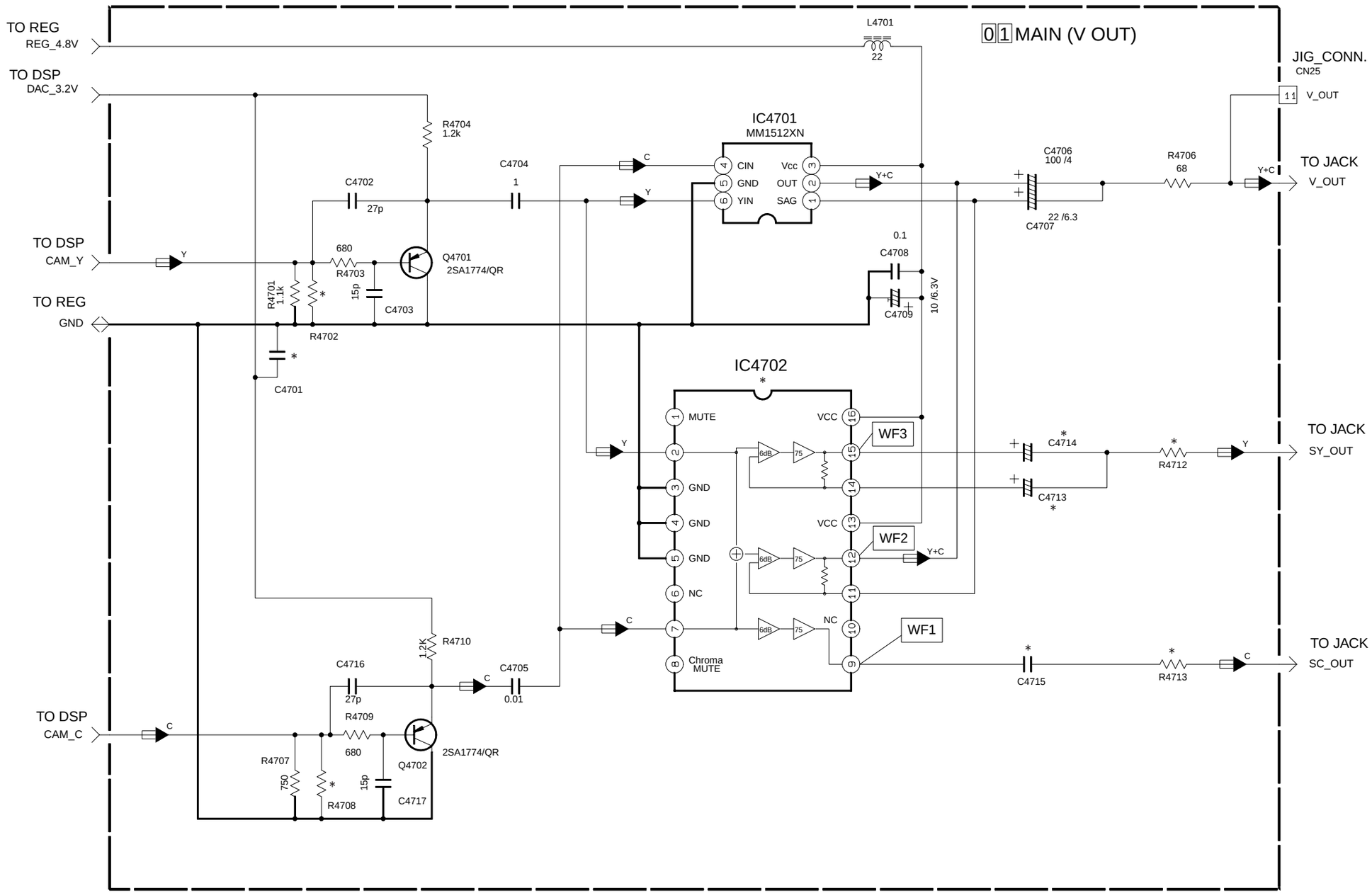
TO CPU
GND
CDS_CS
SCK3
SO3
CCD_SCS
DSGAT

HDTG

y30152001a_rev0

NOTES : 1. The parts with marked (∗) is not used.
2. For TG/CDS waveforms, please refer to "WAVEFORM TABLE".

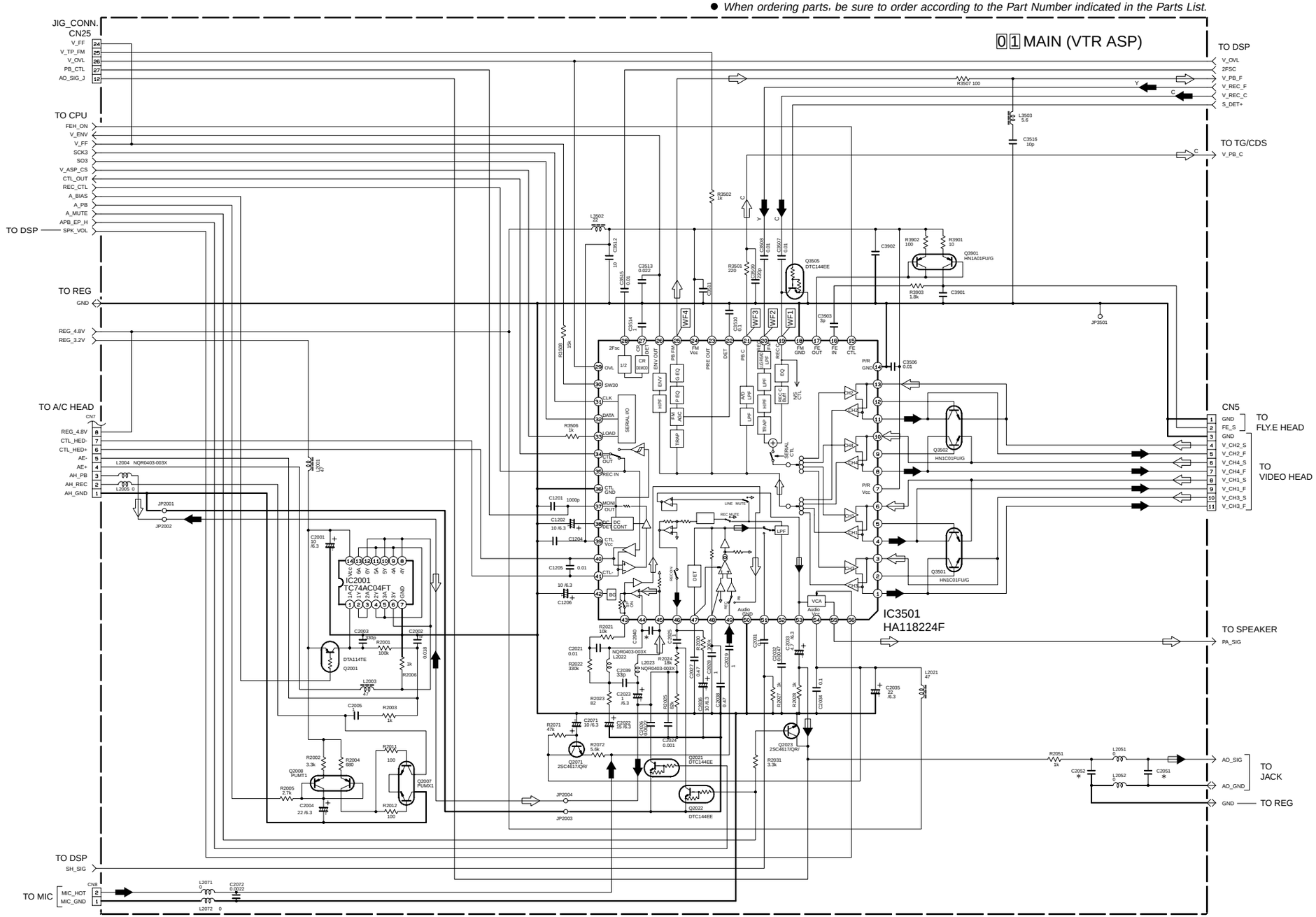
NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



NOTES : 1. The parts with marked (∗) is not used.
2. For V OUT waveforms, please refer to "WAVEFORM TABLE".

NV-VZ14EG/EGE/EGM, NV-VZ15B/EG/EGE/EGM/EN, NV-VZ55EG/EGM
V OUT SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

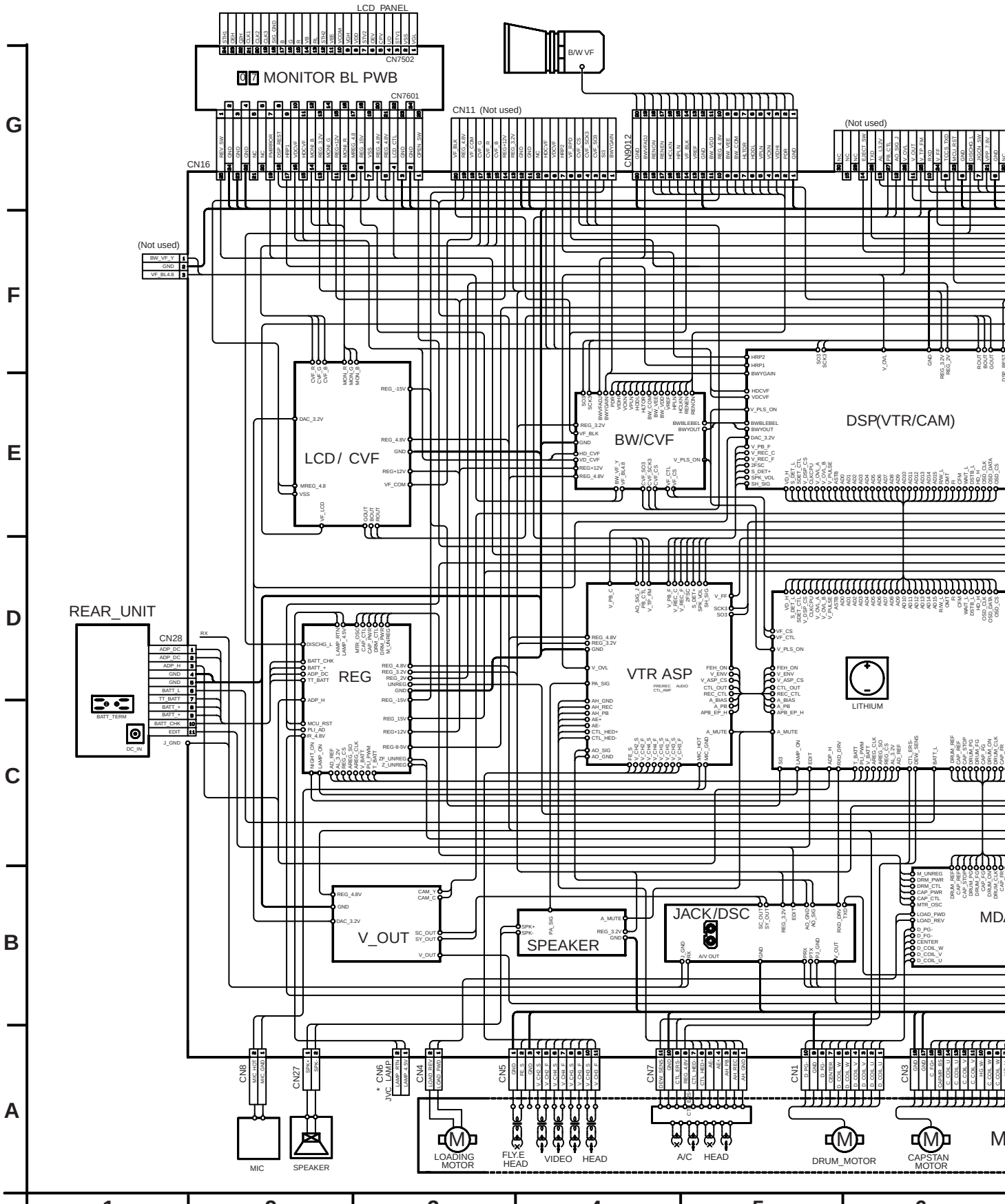


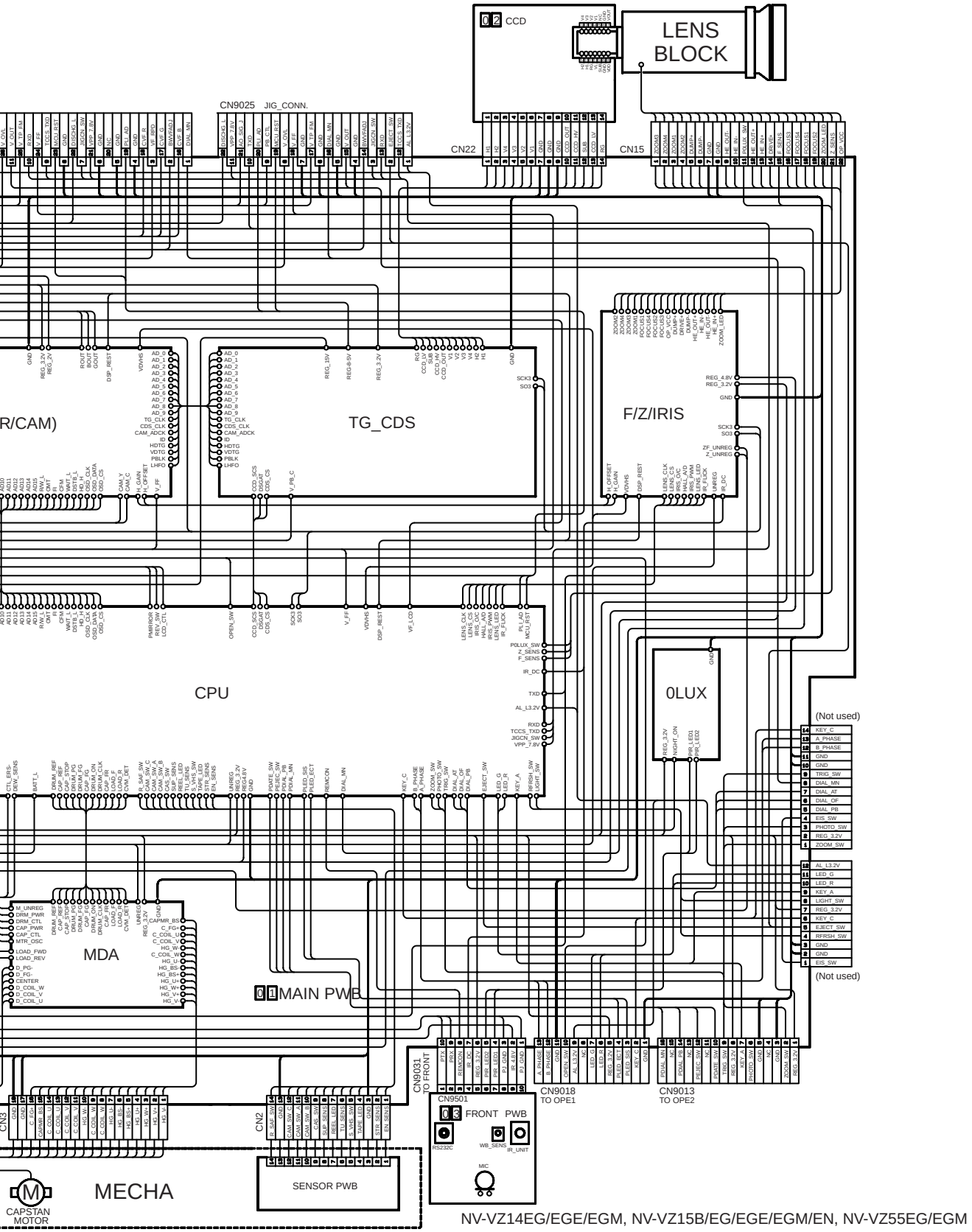
NOTES : 1. The parts with marked (∗) is not used.
2. For VTR ASP waveforms, please refer to page WAVEFORM TABLE.

y20158001a_rev0

7 SCHEMATIC DIAGRAMS

7.1. BOARD INTERCONNECTIONS

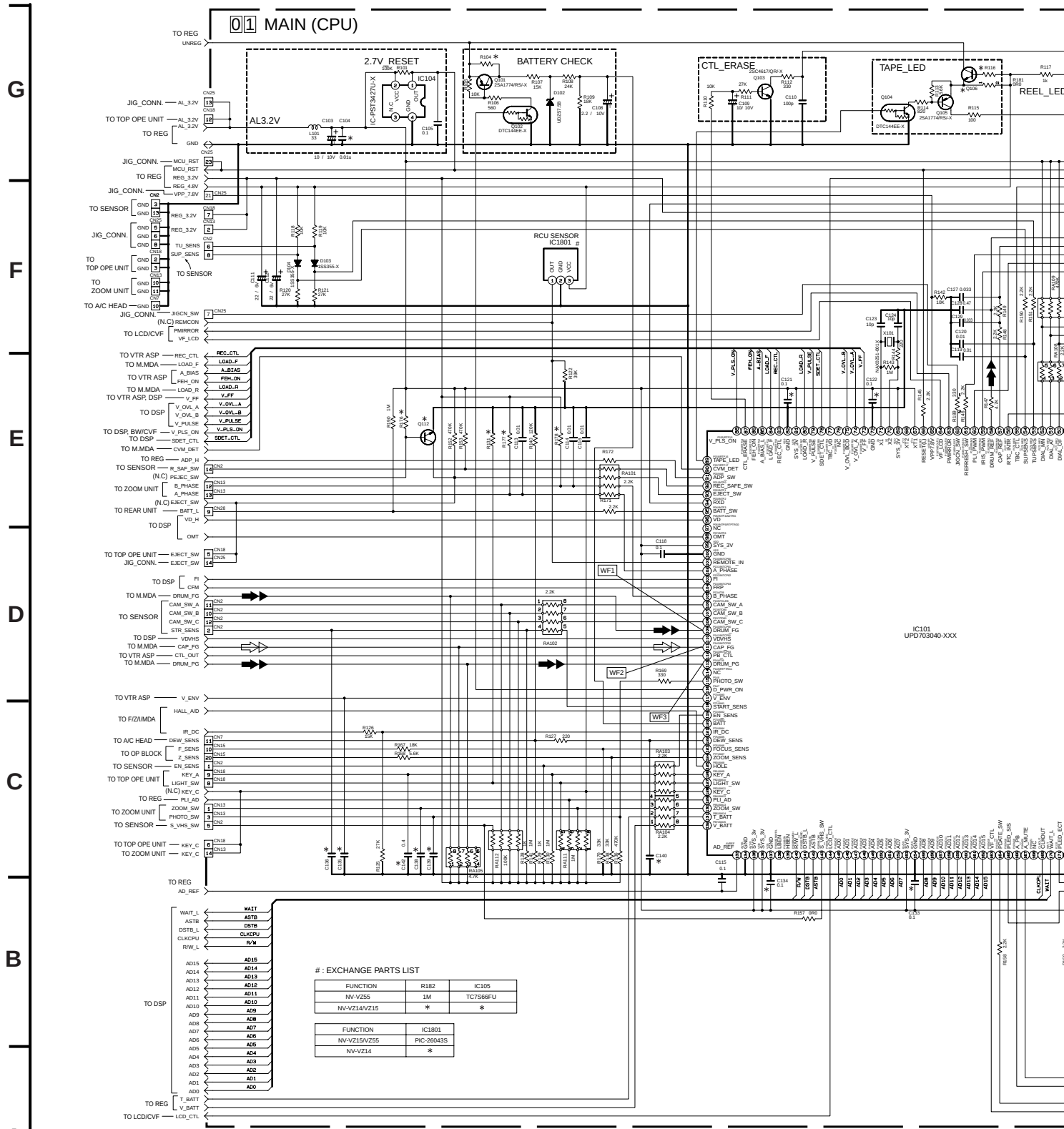




NV-VZ14EG/EGE/EGM, NV-VZ15B/EG/EGE/EGM/EN, NV-VZ55EG/EGM
BOARD INTERCONNECTIONS

6 7 8 9 10 11

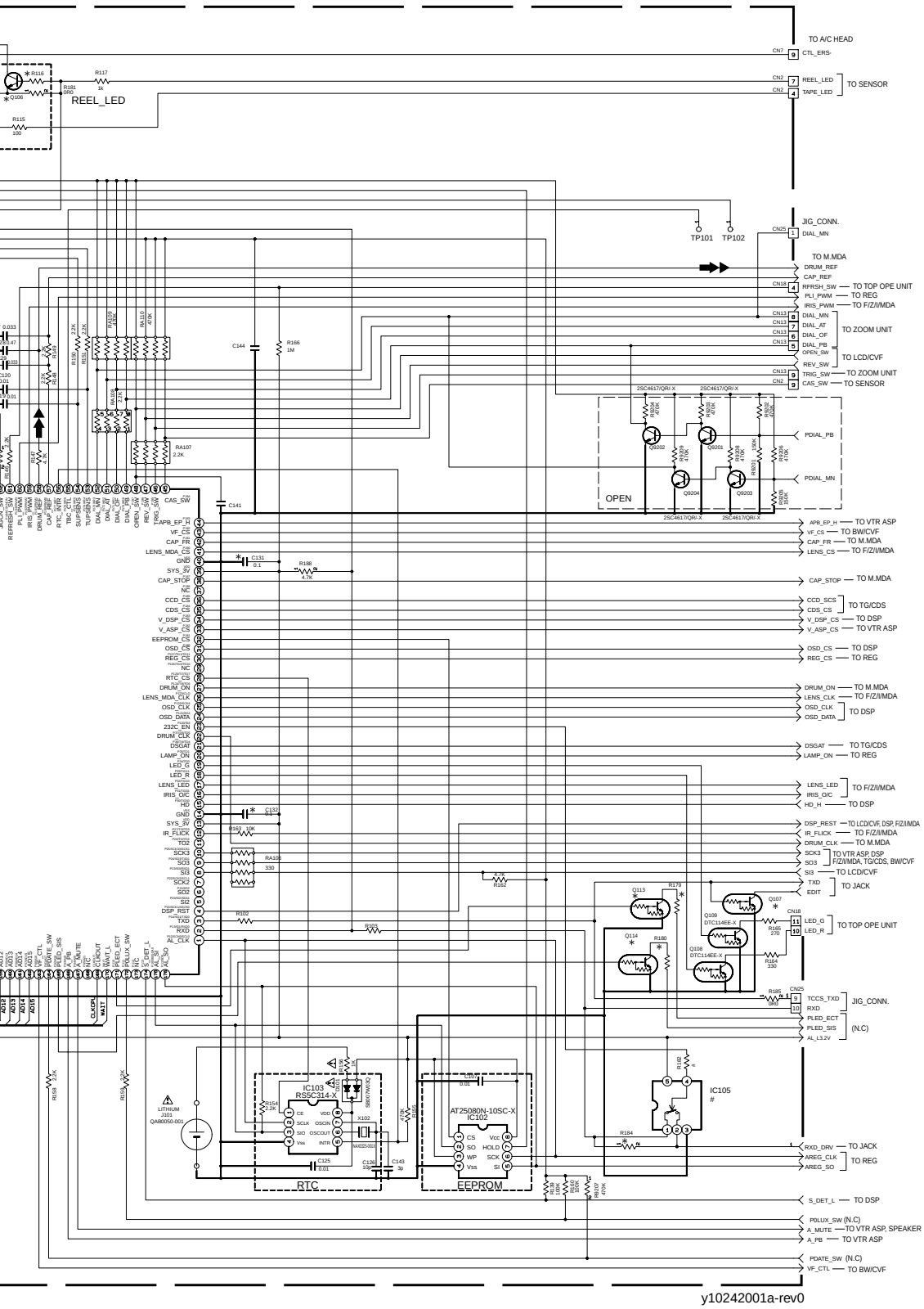
7.2. CPU SCHEMATIC DIAGRAM



NOTES : 1. The parts with marked (*) is not used.
2. For CPU waveforms, please refer to "WAVEFORM TABLE".

NOTES :

- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

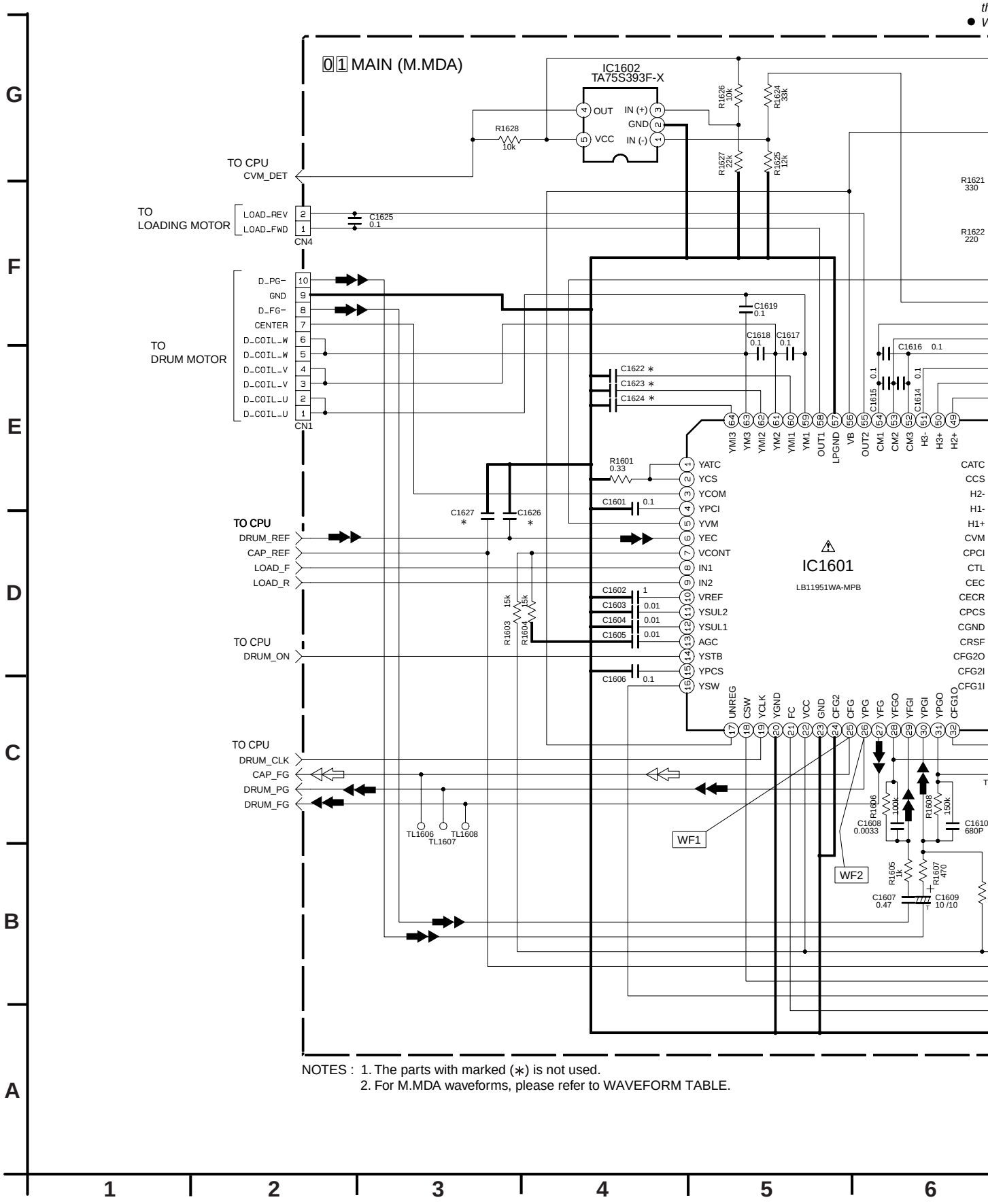


y10242001a-rev0

NV-VZ14EG/EGE/EGM, NV-VZ15B/EG/EGE/EGM/EN, NV-VZ55EG/EGM
CPU SCHEMATIC DIAGRAM

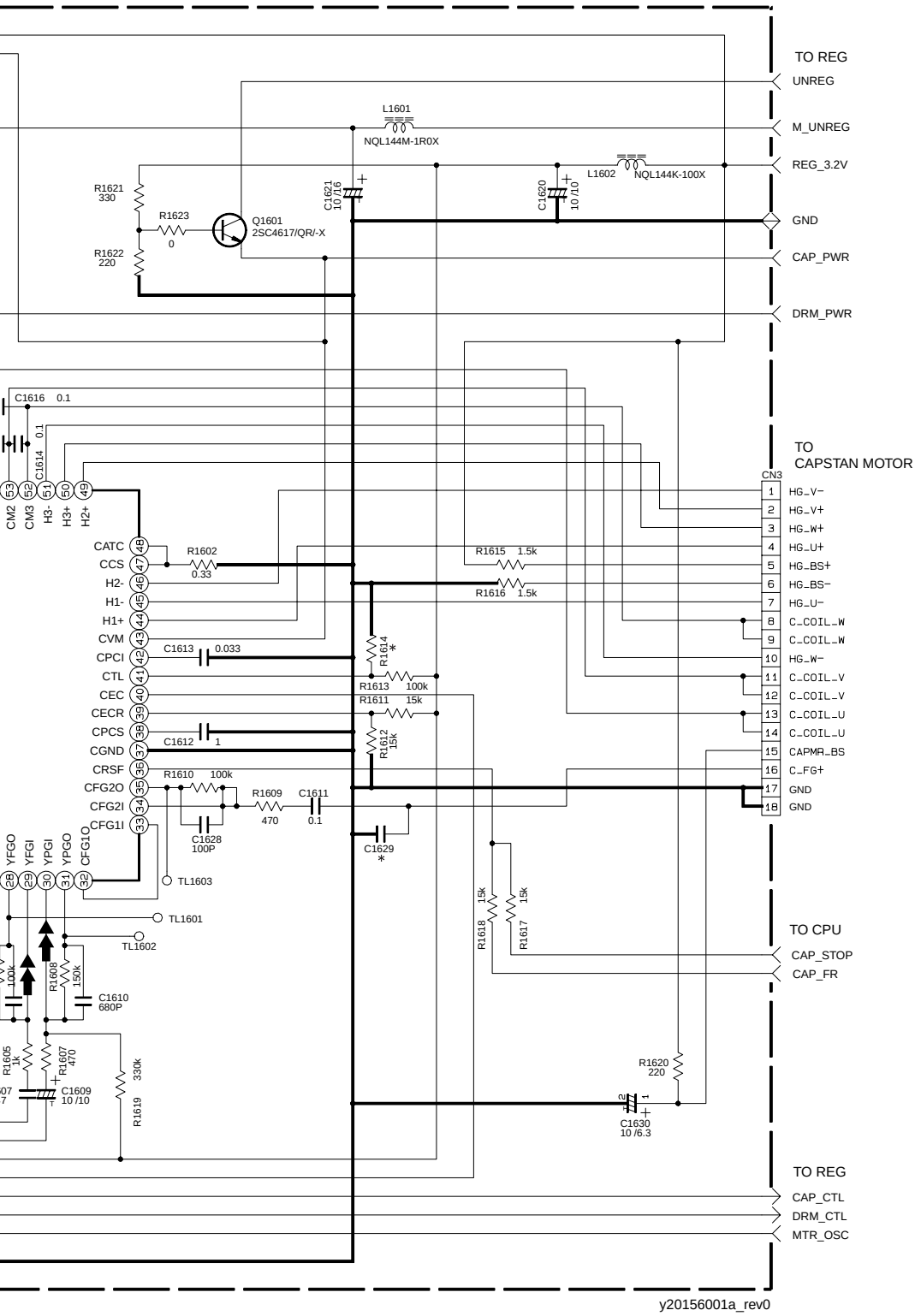
6	7	8	9	10	11

7.3. M.MDA SCHEMATIC DIAGRAM



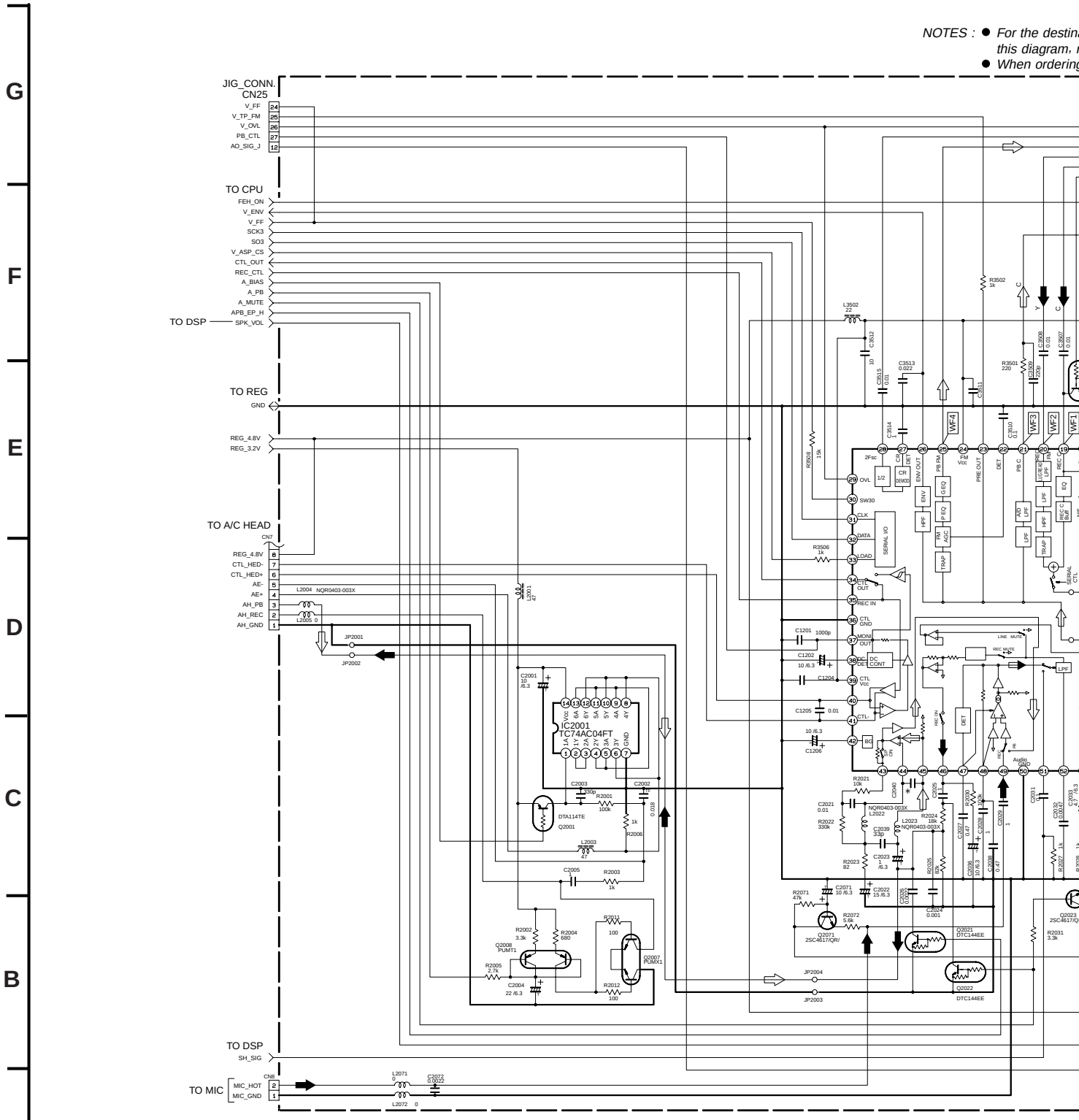
NOTES : 1. The parts with marked (∗) is not used.
2. For M.MDA waveforms, please refer to WAVEFORM TABLE.

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



y20156001a_rev0

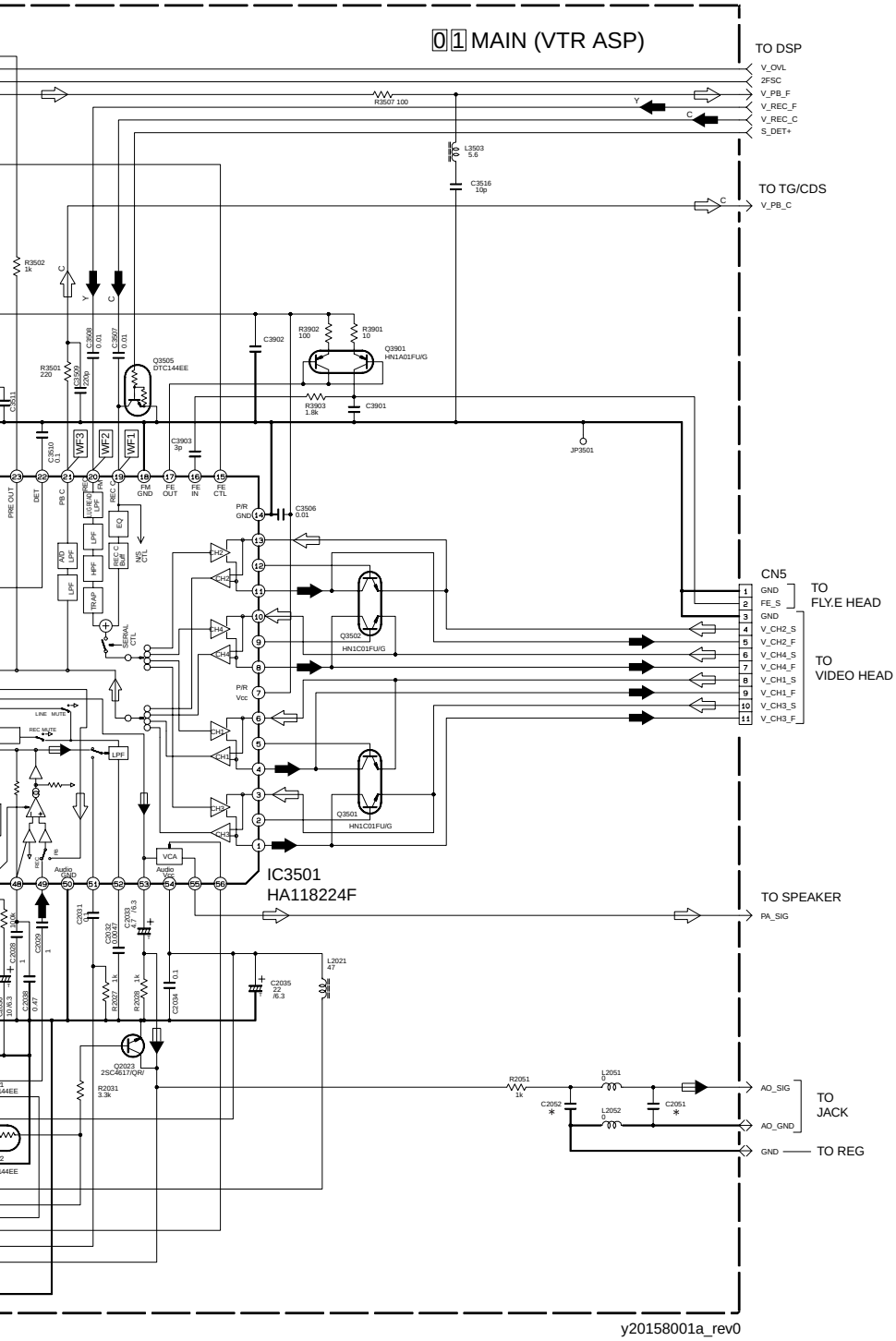
7.4. VTR ASP SCHEMATIC DIAGRAM



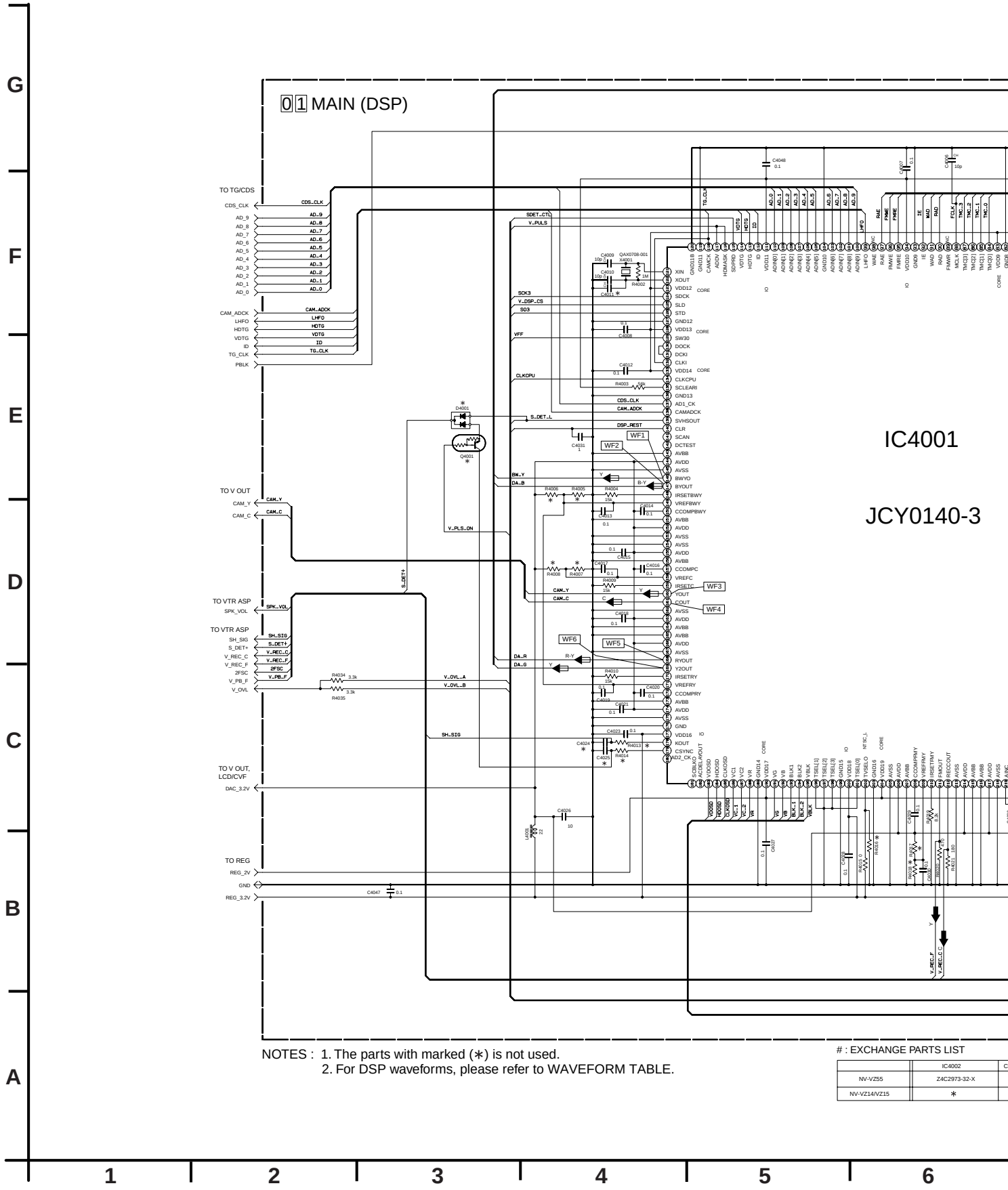
NOTES : 1. The parts with marked (∗) is not used.
2. For VTR ASP waveforms, please refer to page WAVEFORM TABLE.

: ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*

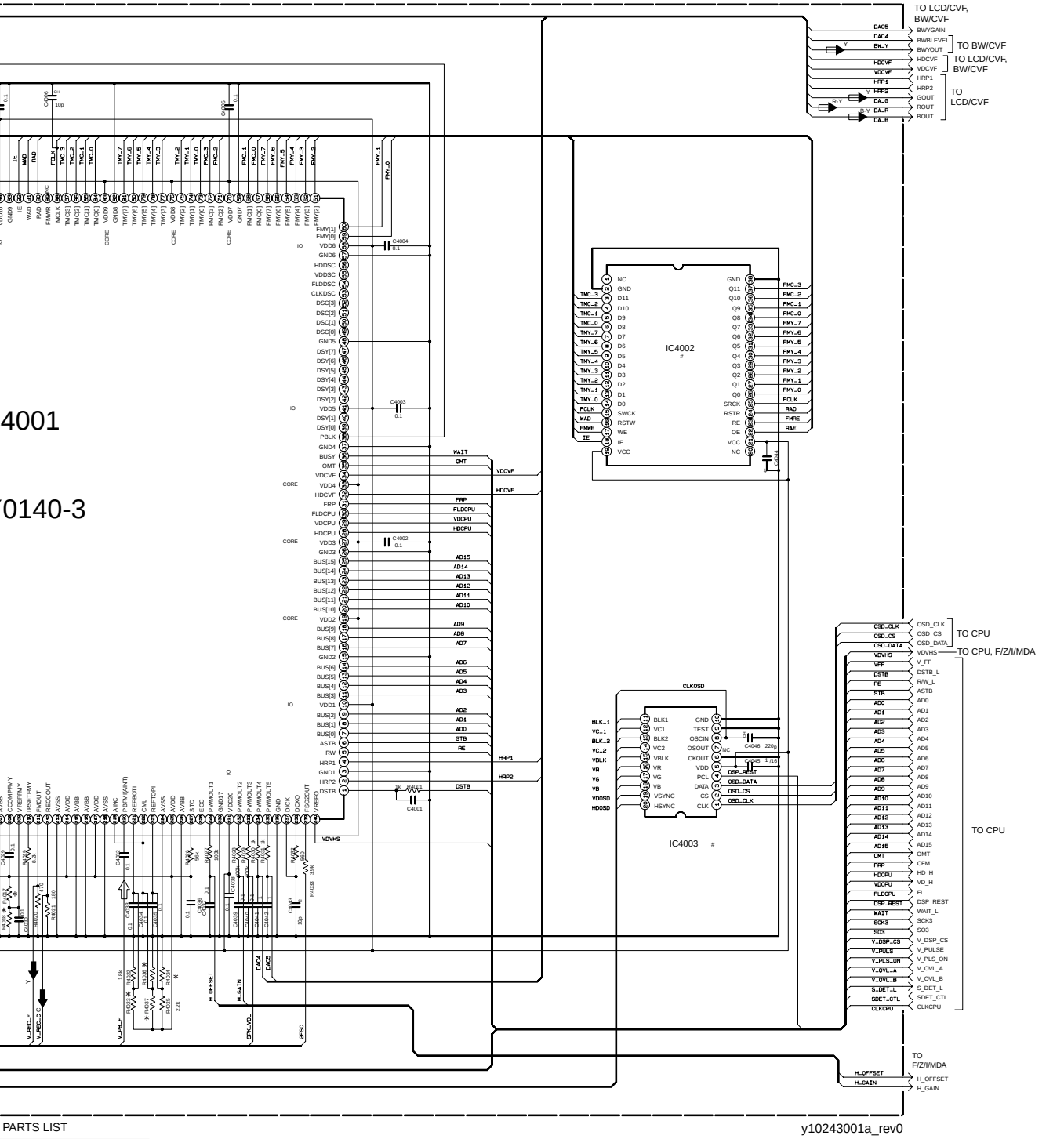
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



7.5. DSP SCHEMATIC DIAGRAM



NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



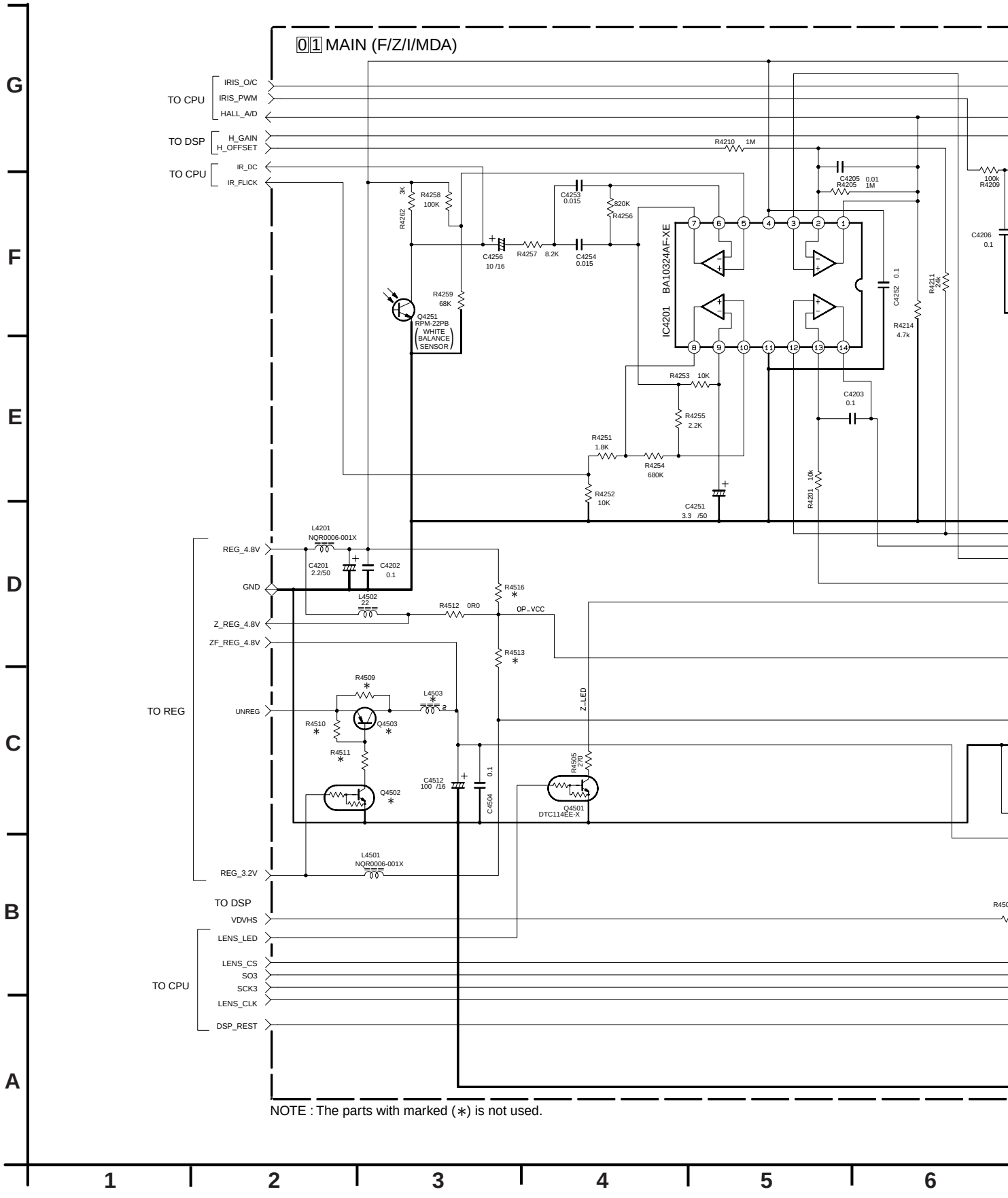
PARTS LIST

IC4002	C4044
Z4C2973-32-X	1
*	*

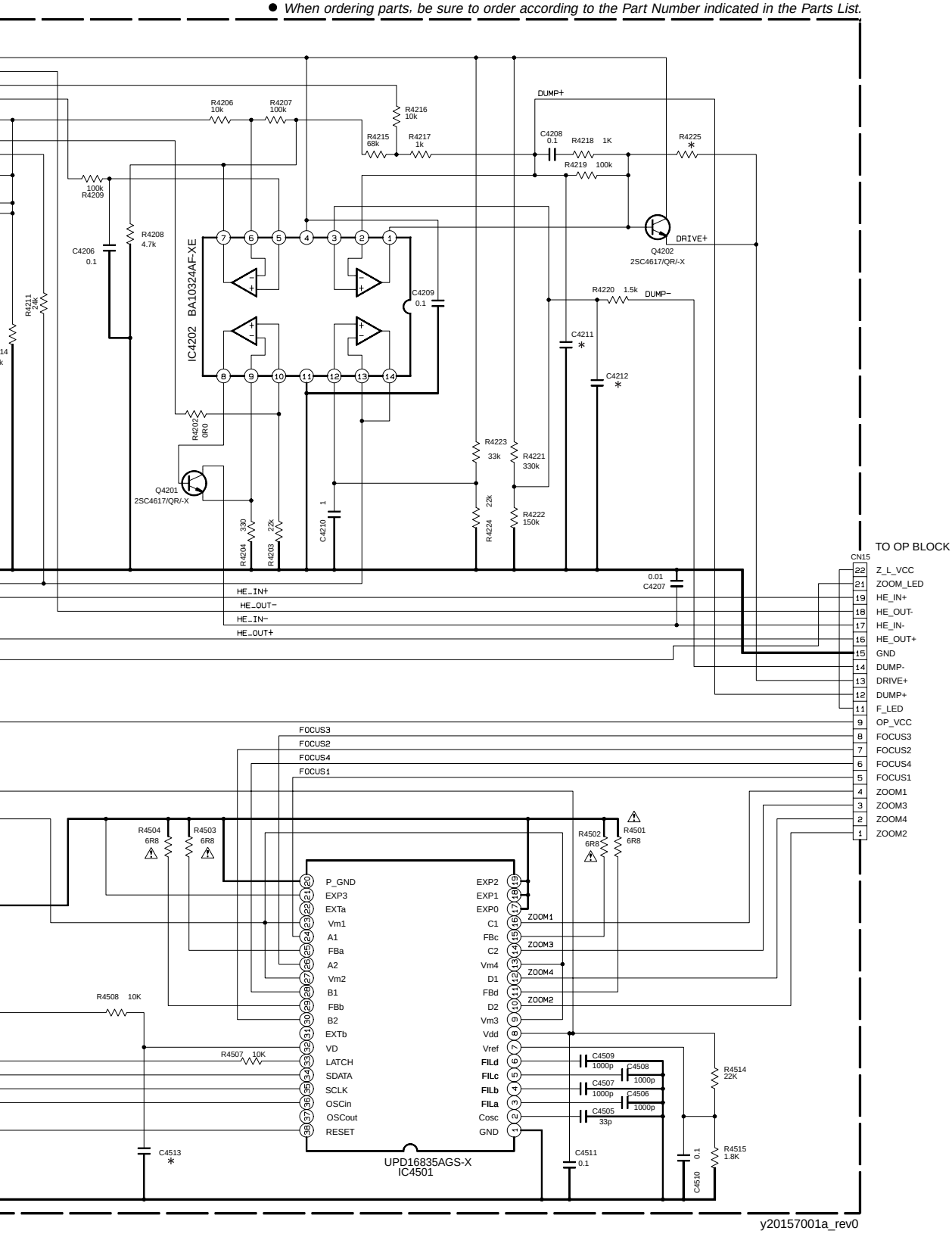
NV-VZ14EG/EGE/EGM, NV-VZ15B/EG/EGE/EGM/EN, NV-VZ55EG/EGM
DSP SCHEMATIC DIAGRAM

6 7 8 9 10 11

7.6. F/Z/I/MDA SCHEMATIC DIAGRAM



NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



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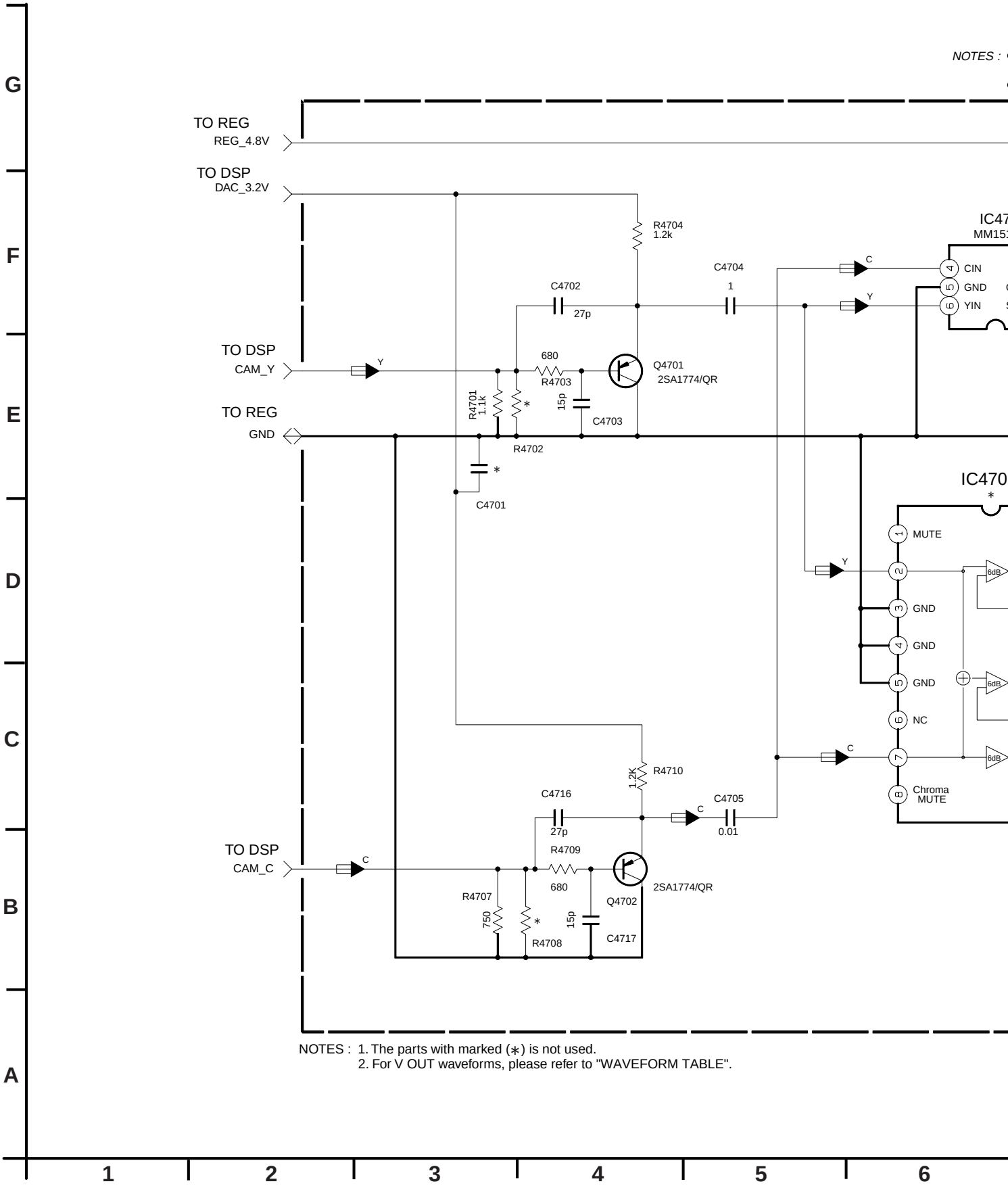
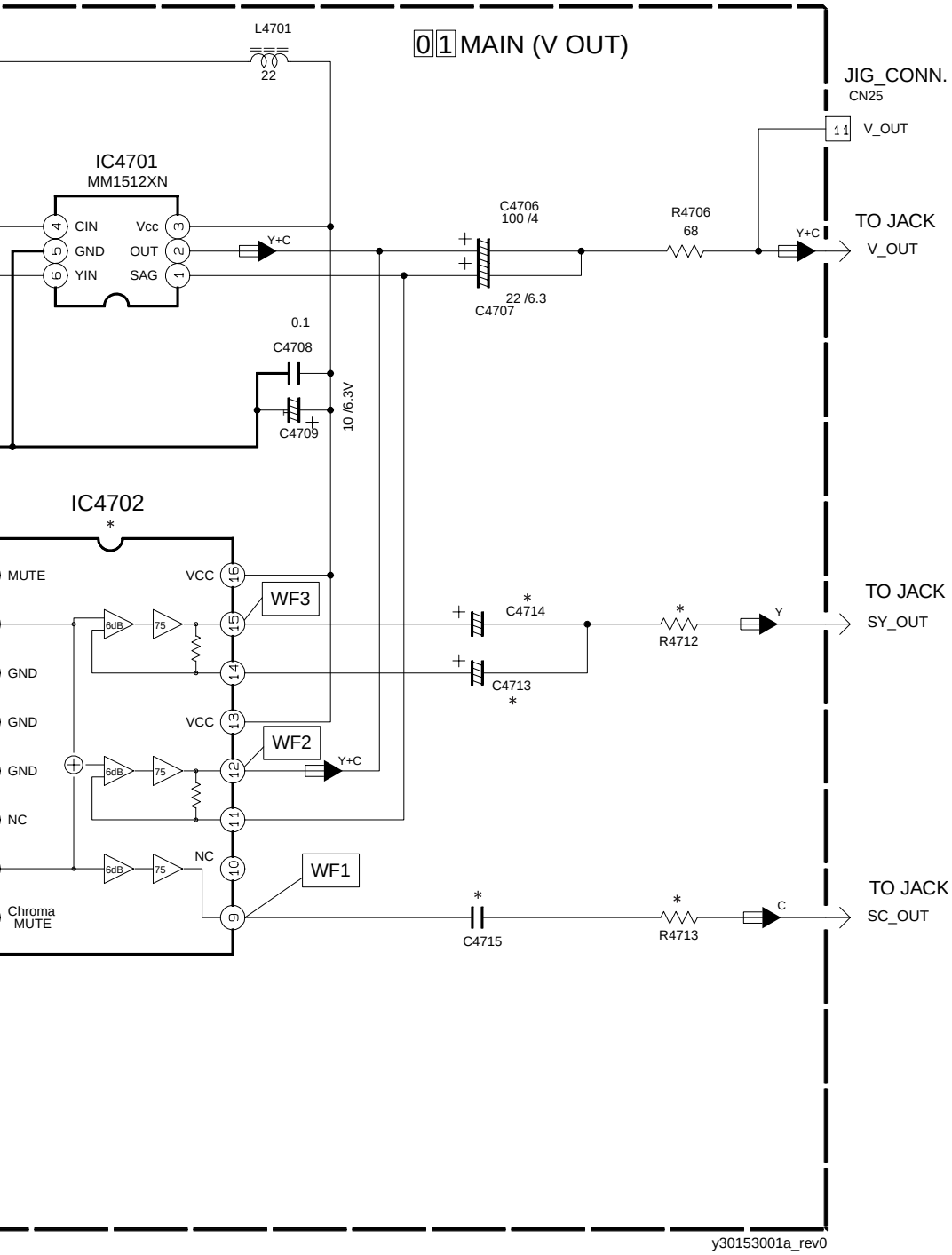
NV-VZ14EG/EGE/EGM, NV-VZ15B/EG/EGE/EGM/EN, NV-VZ55EG/EGM
F/Z/I/MDA SCHEMATIC DIAGRAM

6 | 7 | 8 | 9 | 10 | 11

7.7. V OUT SCHEMATIC DIAGRAM



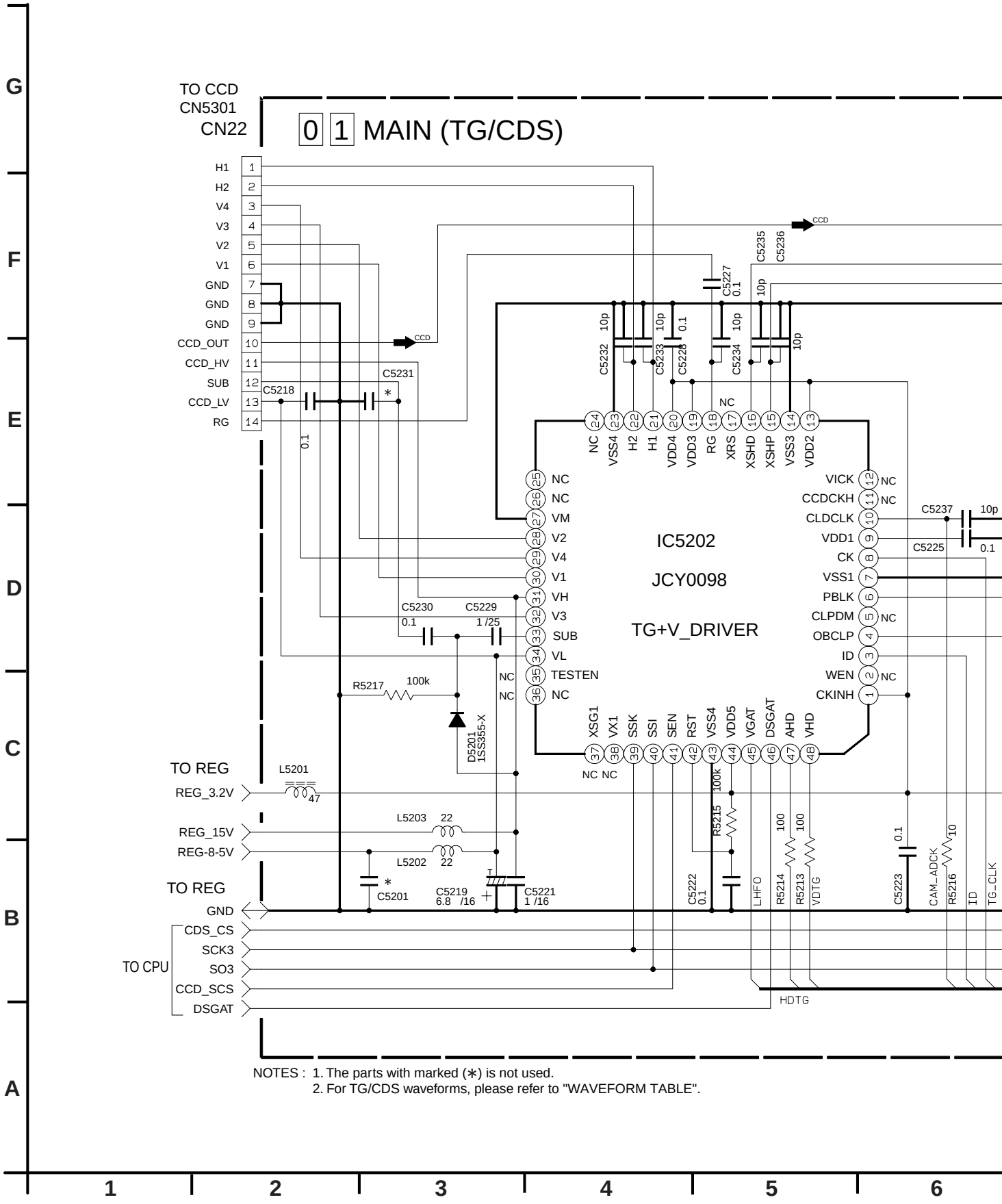
NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



NV-VZ14EG/EGE/EGM, NV-VZ15B/EG/EGE/EGM/EN, NV-VZ55EG/EGM
V OUT SCHEMATIC DIAGRAM

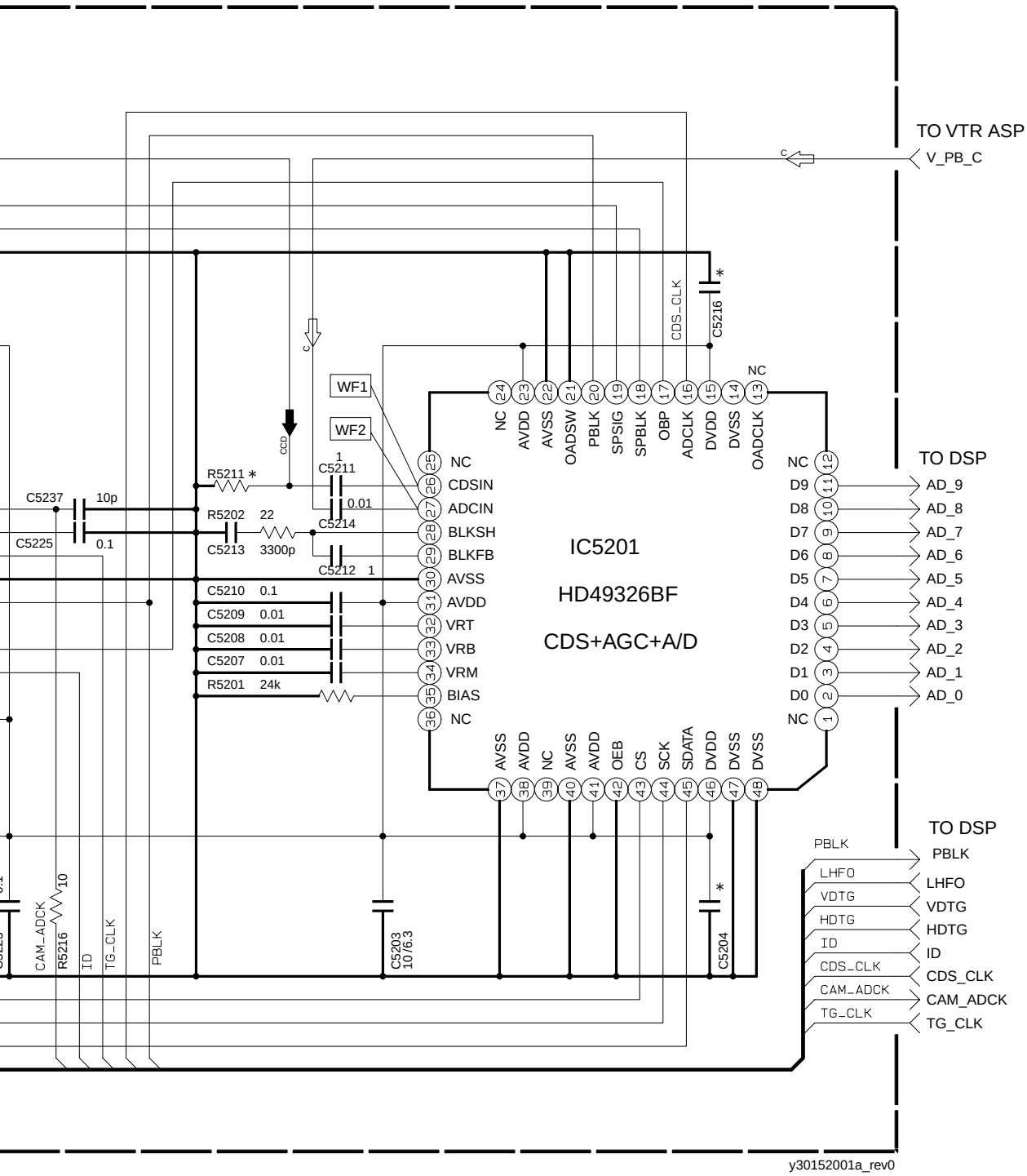
6 7 8 9 10 11

7.8. TG/CDS SCHEMATIC DIAGRAM

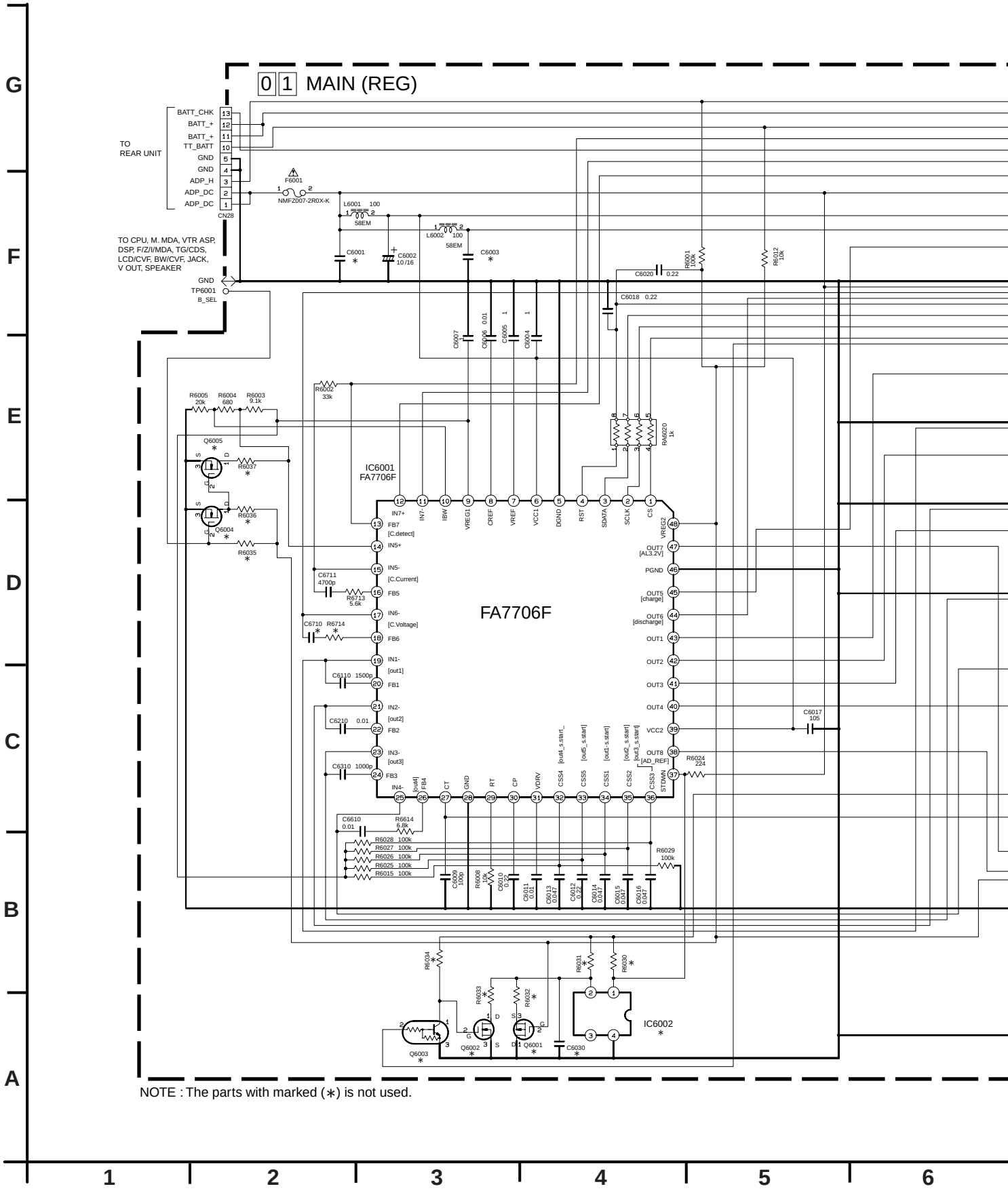


NOTES : 1. The parts with marked (∗) is not used.
2. For TG/CDS waveforms, please refer to "WAVEFORM TABLE".

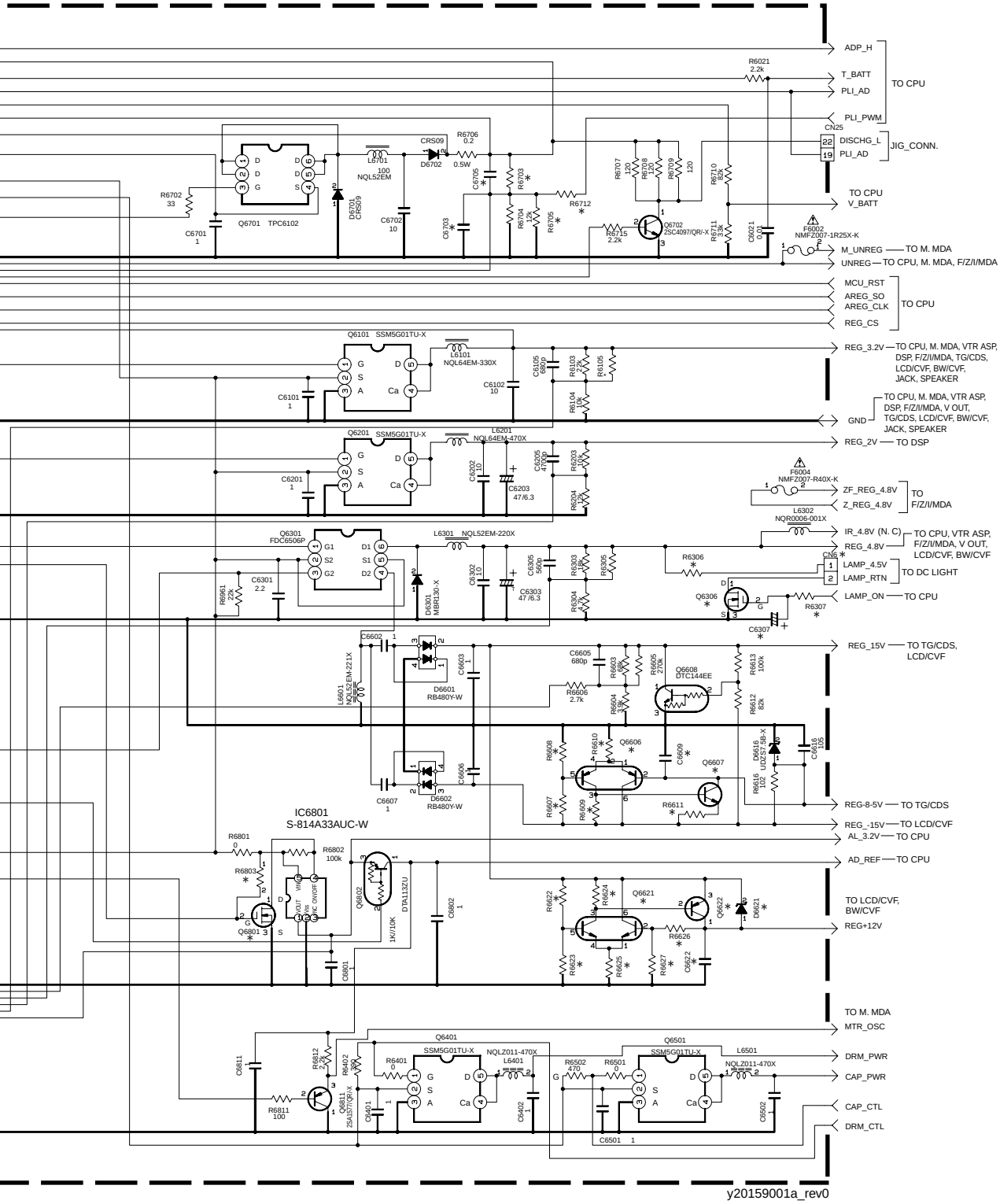
NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



7.9. REG SCHEMATIC DIAGRAM



NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

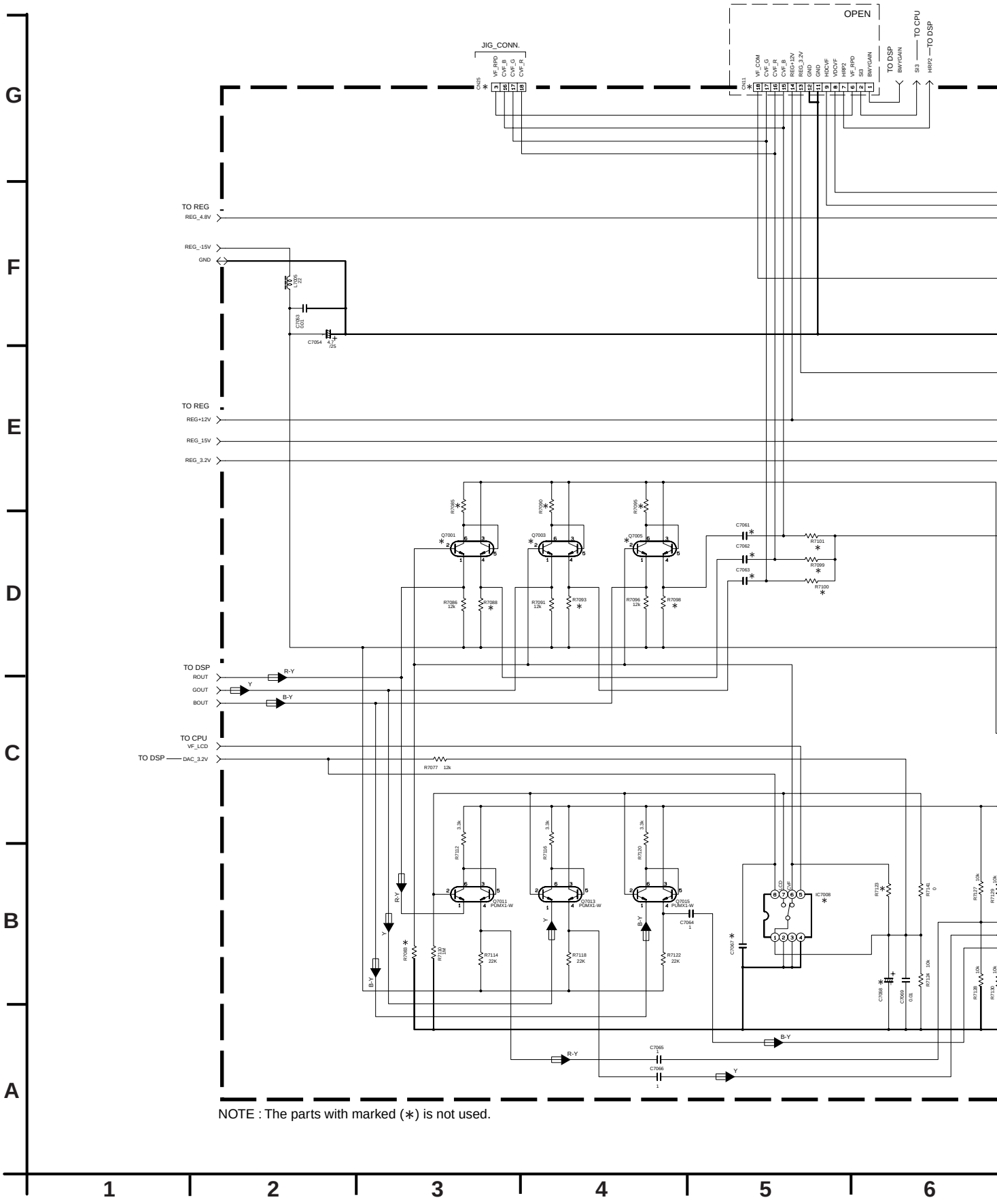


y20159001a_rev0

NV-VZ14EG/EGE/EGM, NV-VZ15B/EG/EGE/EGM/EN, NV-VZ55EG/EGM
REG SCHEMATIC DIAGRAM

6 | 7 | 8 | 9 | 10 | 11

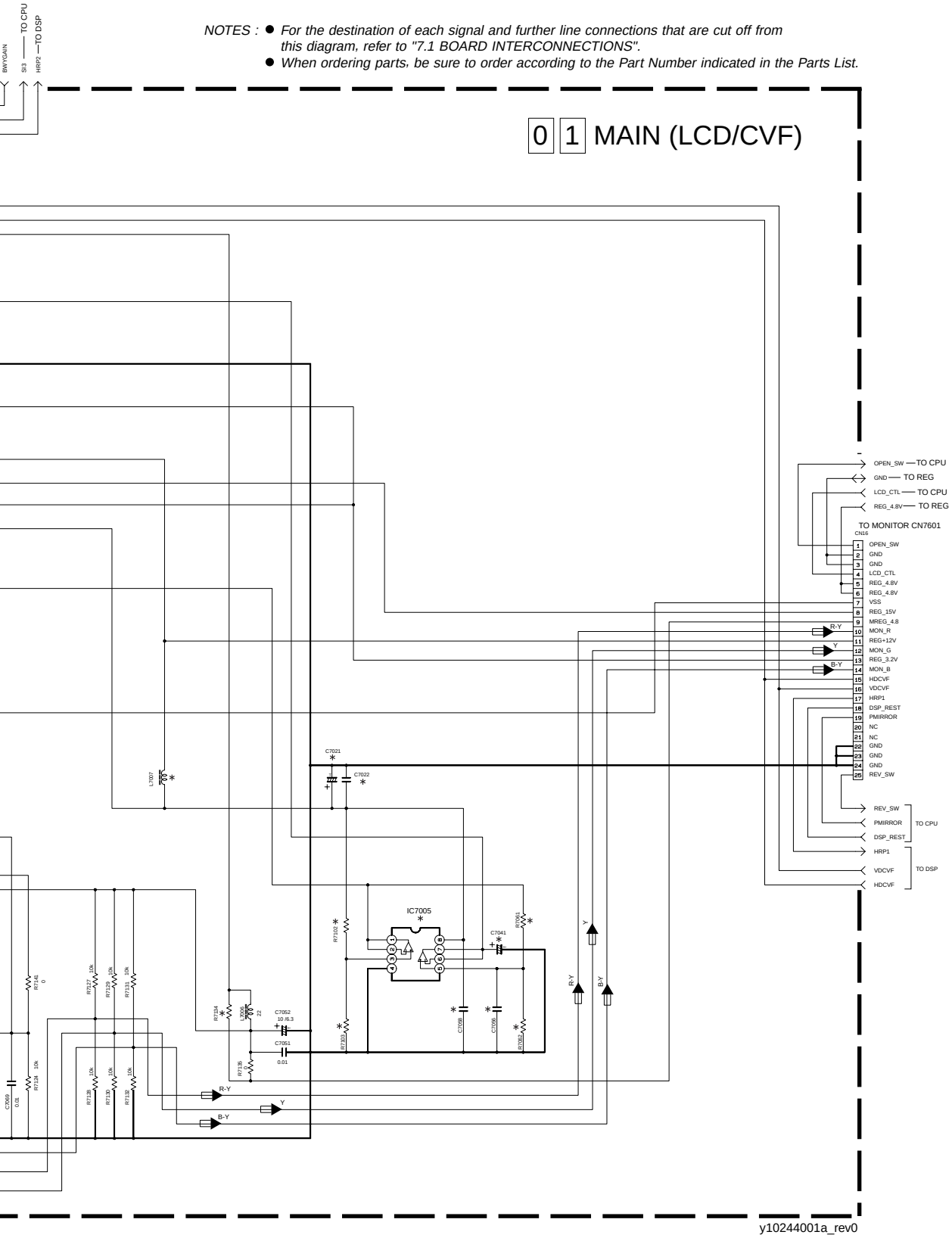
7.10. LCD/CVF SCHEMATIC DIAGRAM



NOTE : The parts with marked (∗) is not used.

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

0 1 MAIN (LCD/CVF)

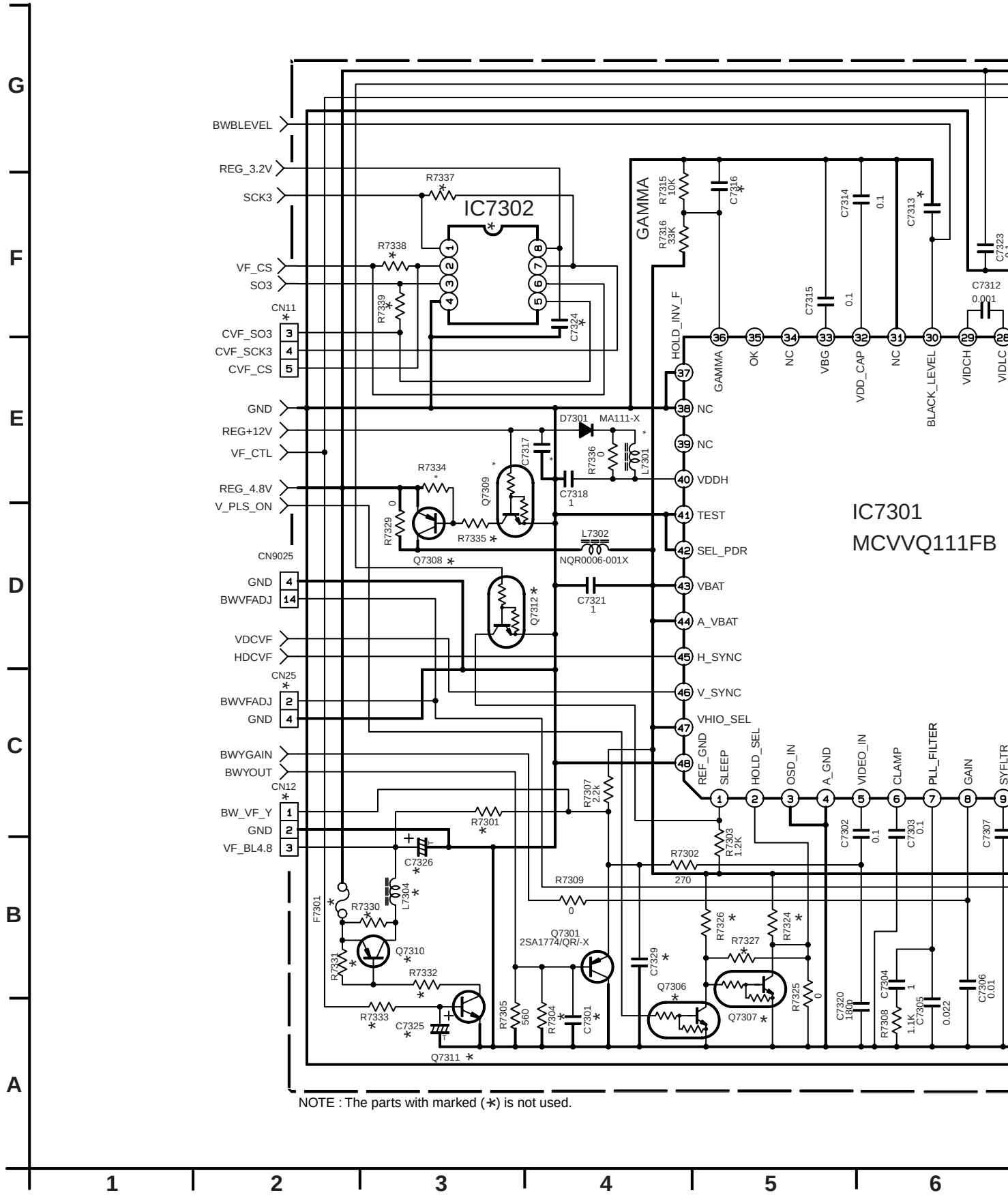


y10244001a_rev0

NV-VZ14EG/EGE/EGM, NV-VZ15B/EG/EGE/EGM/EN, NV-VZ55EG/EGM
LCD/CVF SCHEMATIC DIAGRAM

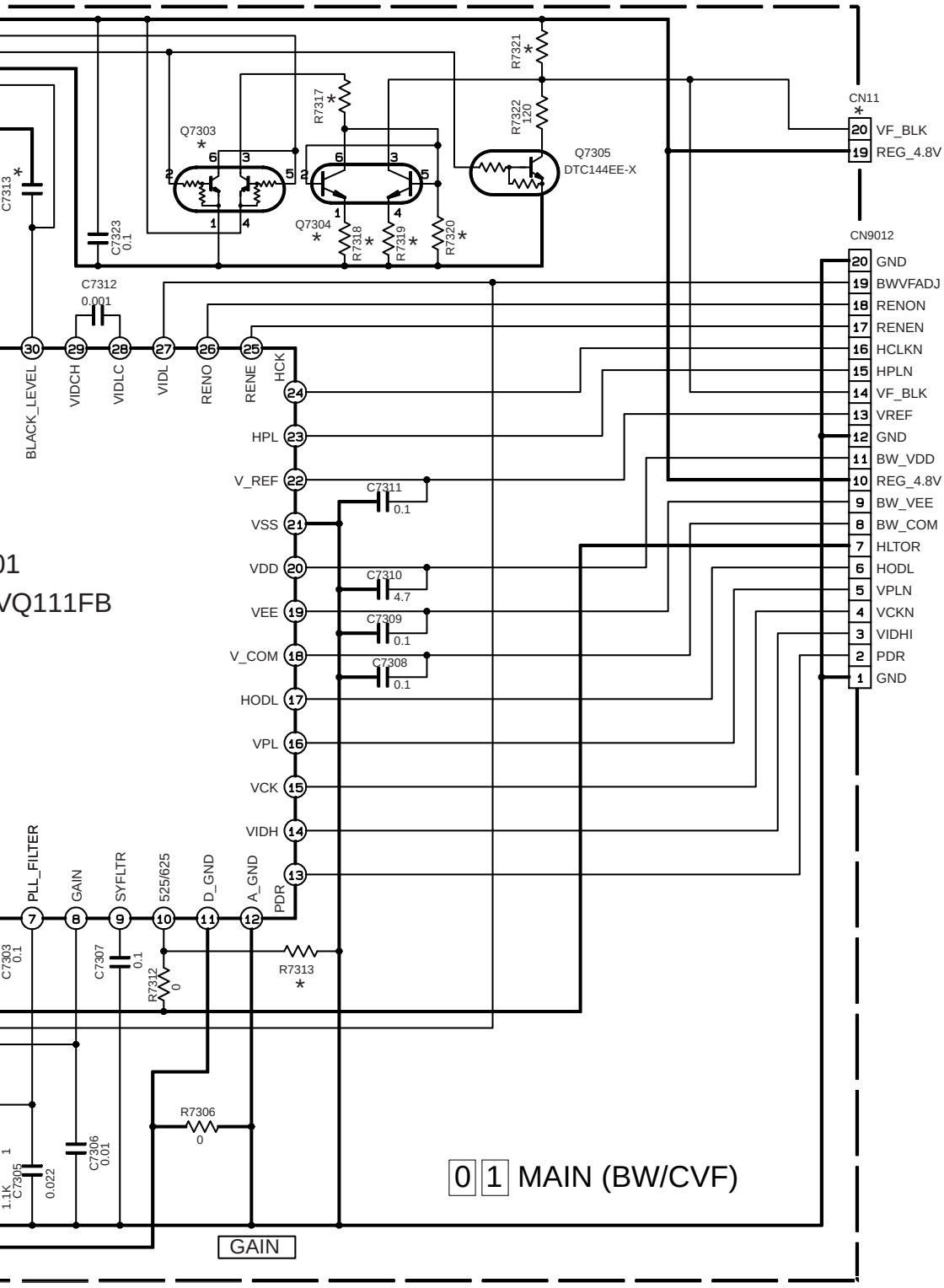
6 | 7 | 8 | 9 | 10 | 11

7.11. B/W CVF SCHEMATIC DIAGRAM



NOTE : The parts with marked (*) is not used.

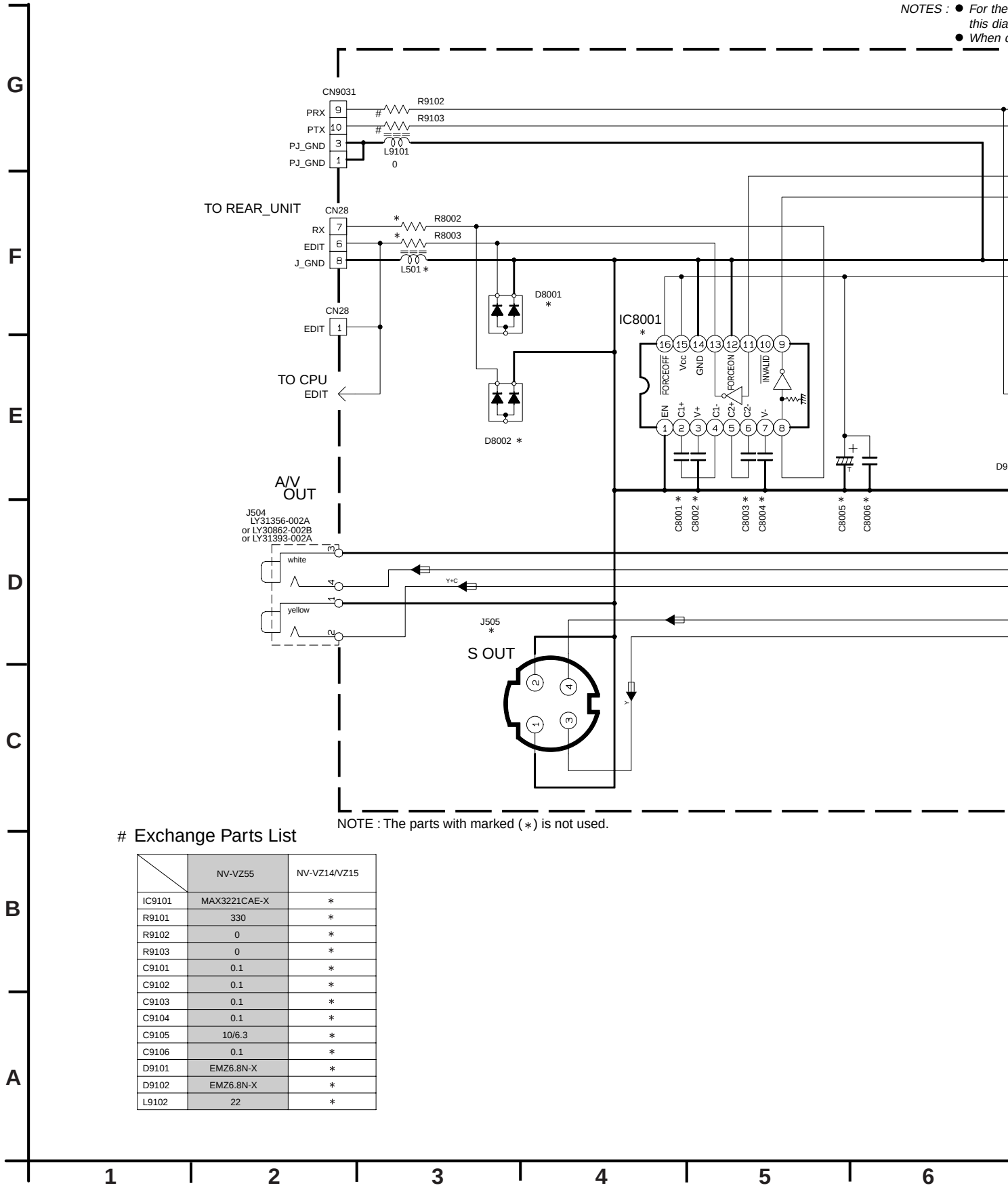
NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



NV-VZ14EG/EGE/EGM, NV-VZ15B/EG/EGE/EGM/EN, NV-VZ55EG/EGM
BW/CVF SCHEMATIC DIAGRAM

6 | 7 | 8 | 9 | 10 | 11

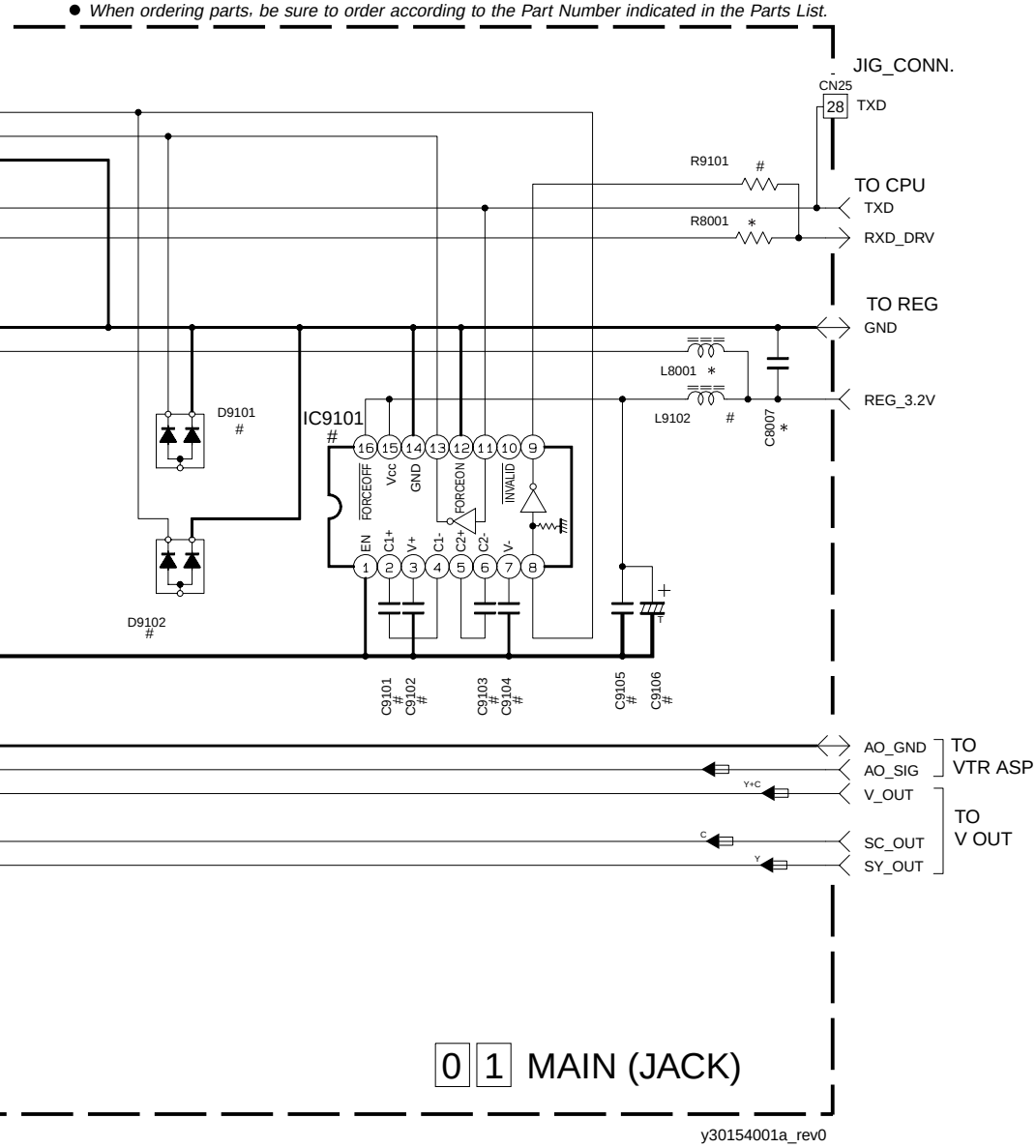
7.12. JACK SCHEMATIC DIAGRAM



Exchange Parts List

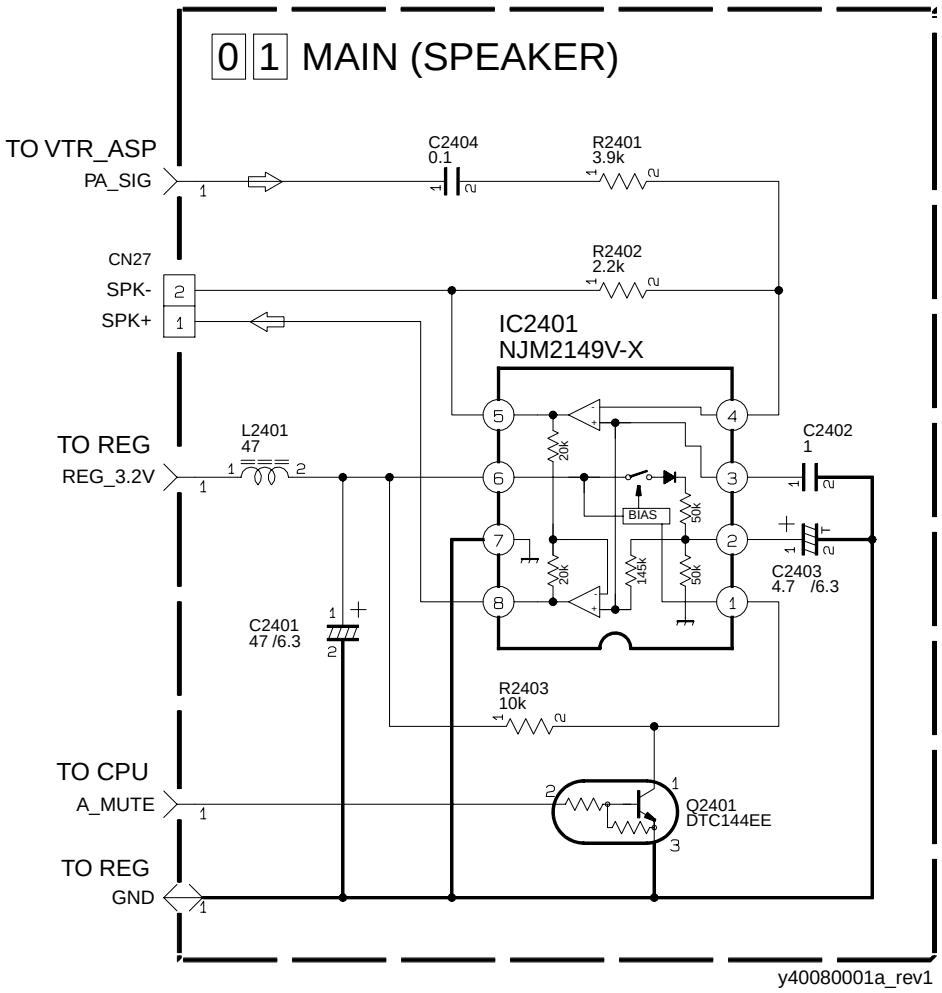
	NV-VZ55	NV-VZ14/VZ15
IC9101	MAX3221CAE-X	*
R9101	330	*
R9102	0	*
R9103	0	*
C9101	0.1	*
C9102	0.1	*
C9103	0.1	*
C9104	0.1	*
C9105	10/6.3	*
C9106	0.1	*
D9101	EMZ6.8N-X	*
D9102	EMZ6.8N-X	*
L9102	22	*

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



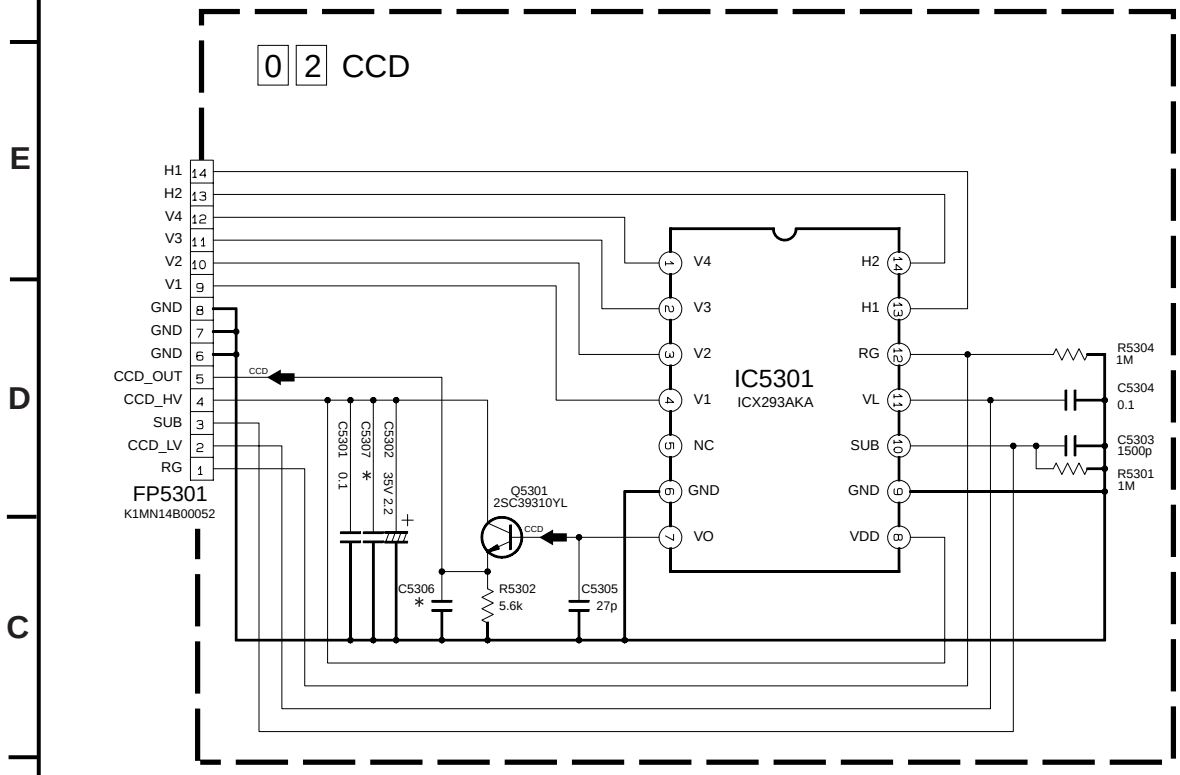
y30154001a_rev0

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



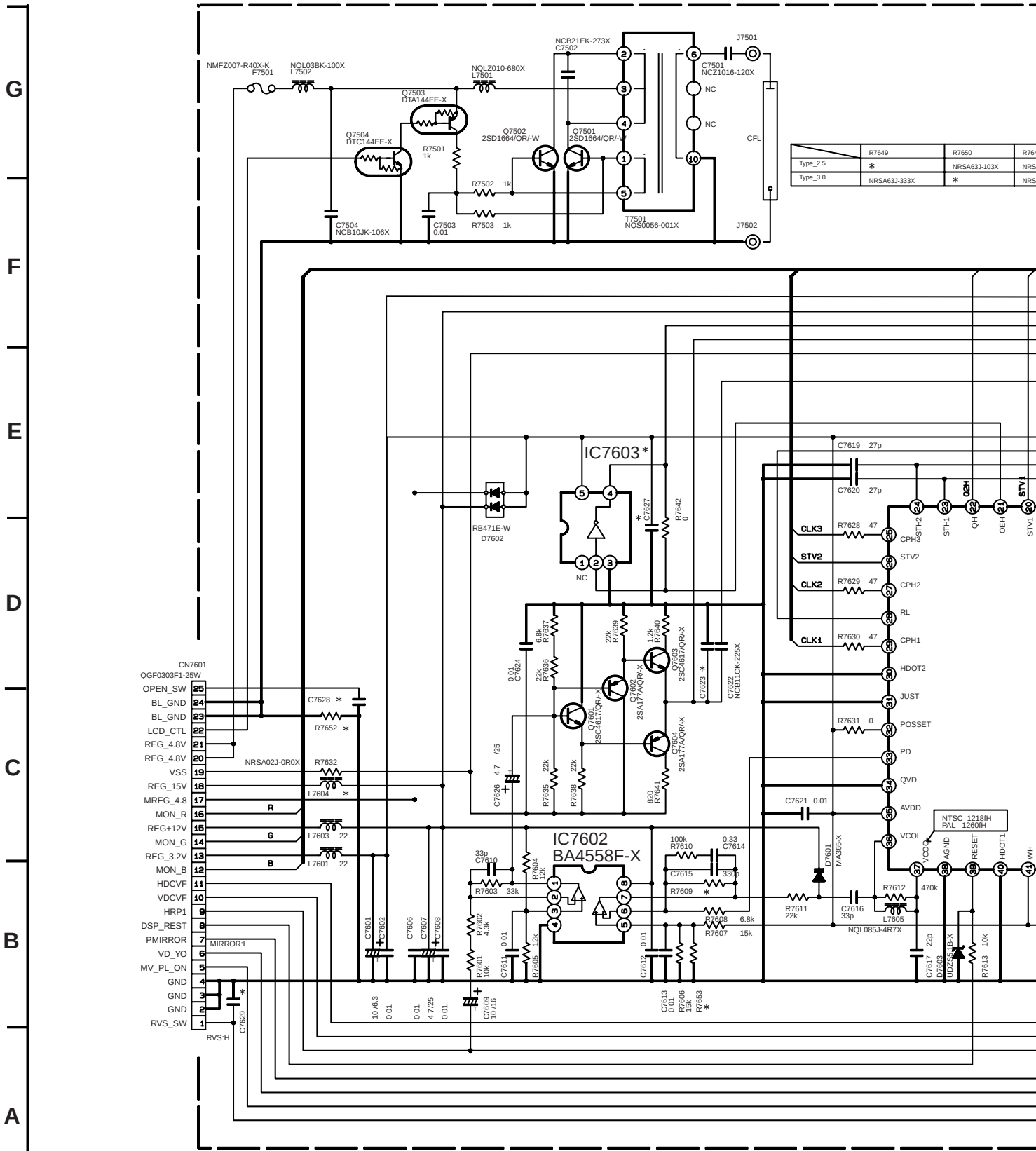
7.14. CCD SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



NOTE : The parts with marked (∗) is not used.

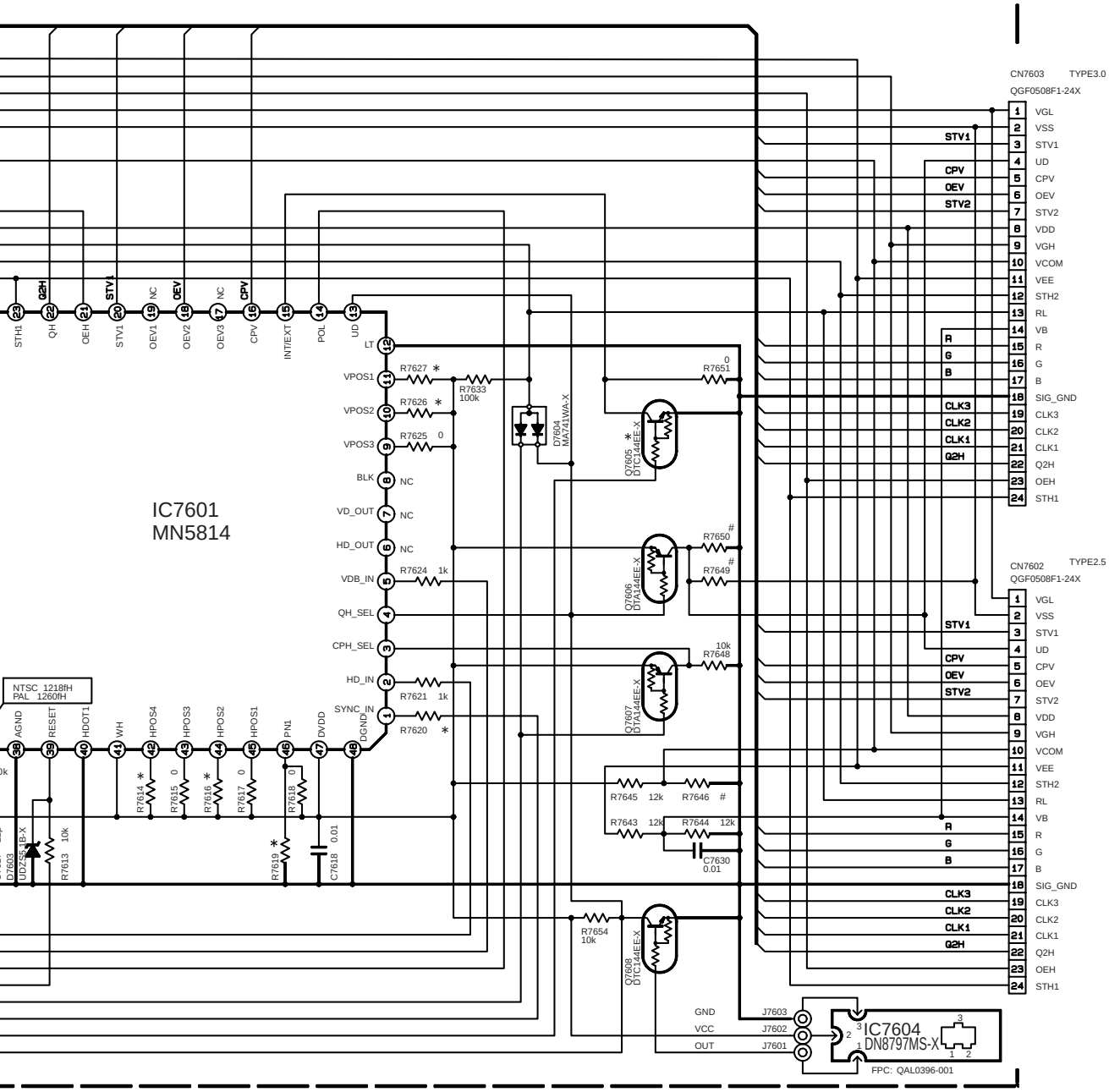
7.15. MONITOR SCHEMATIC DIAGRAM



NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*

0 7 MONITOR

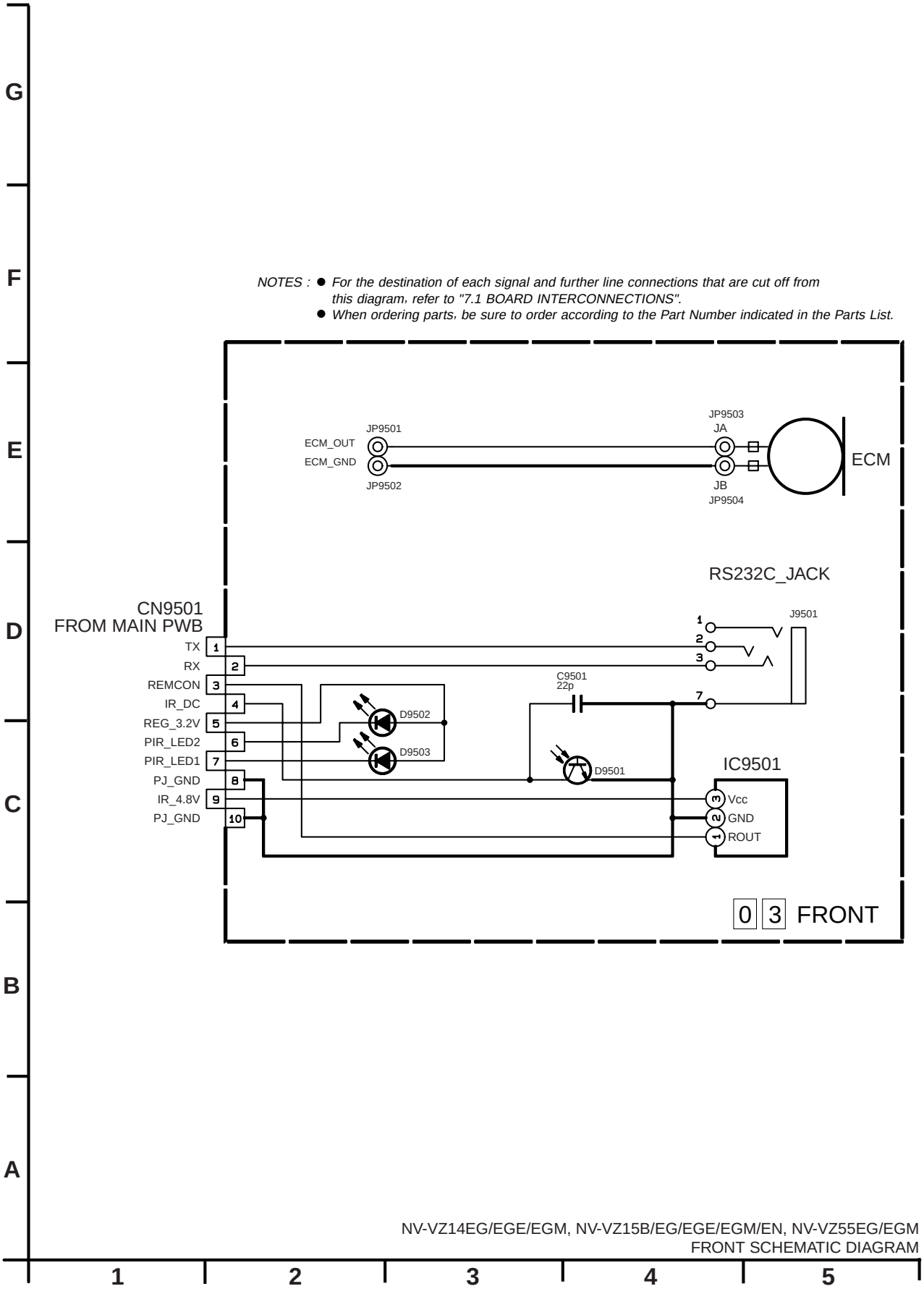
	R7650	R7646	CN7602	CN7603
	NRSA63J-103X	NRSA63J-332X	QGF0508F1-24X	*
	*	NRSA63J-472X	*	QGF0508F1-24X



NV-VZ14EG/EGE/EGM, NV-VZ15B/EG/EGE/EGM/EN, NV-VZ55EG/EGM
MONITOR SCHEMATIC DIAGRAM

6 | 7 | 8 | 9 | 10 | 11

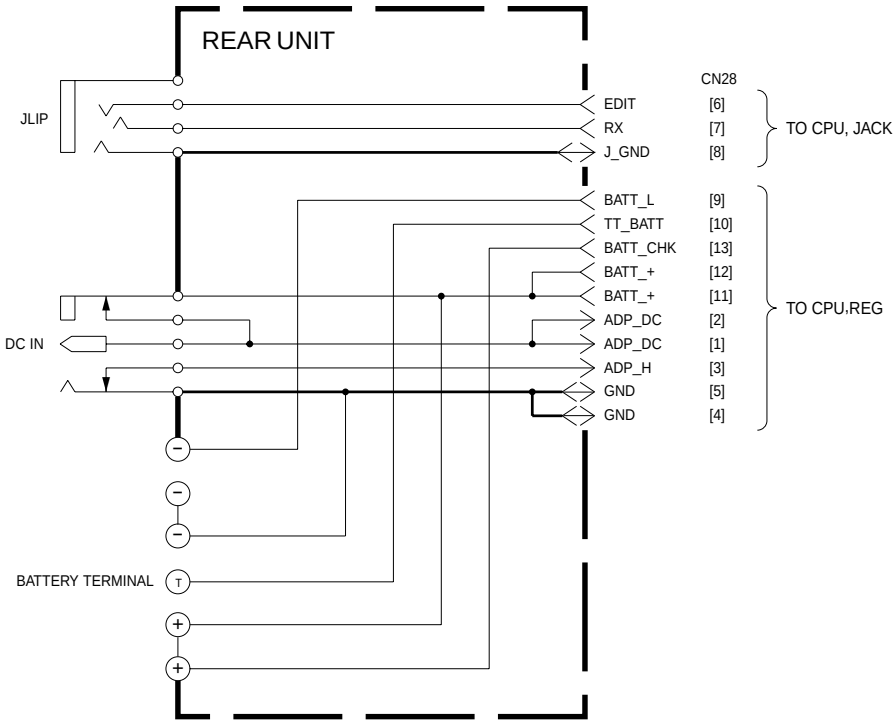
NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



NV-VZ14EG/EGE/EGM, NV-VZ15B/EG/EGE/EGM/EN, NV-VZ55EG/EGM
FRONT SCHEMATIC DIAGRAM

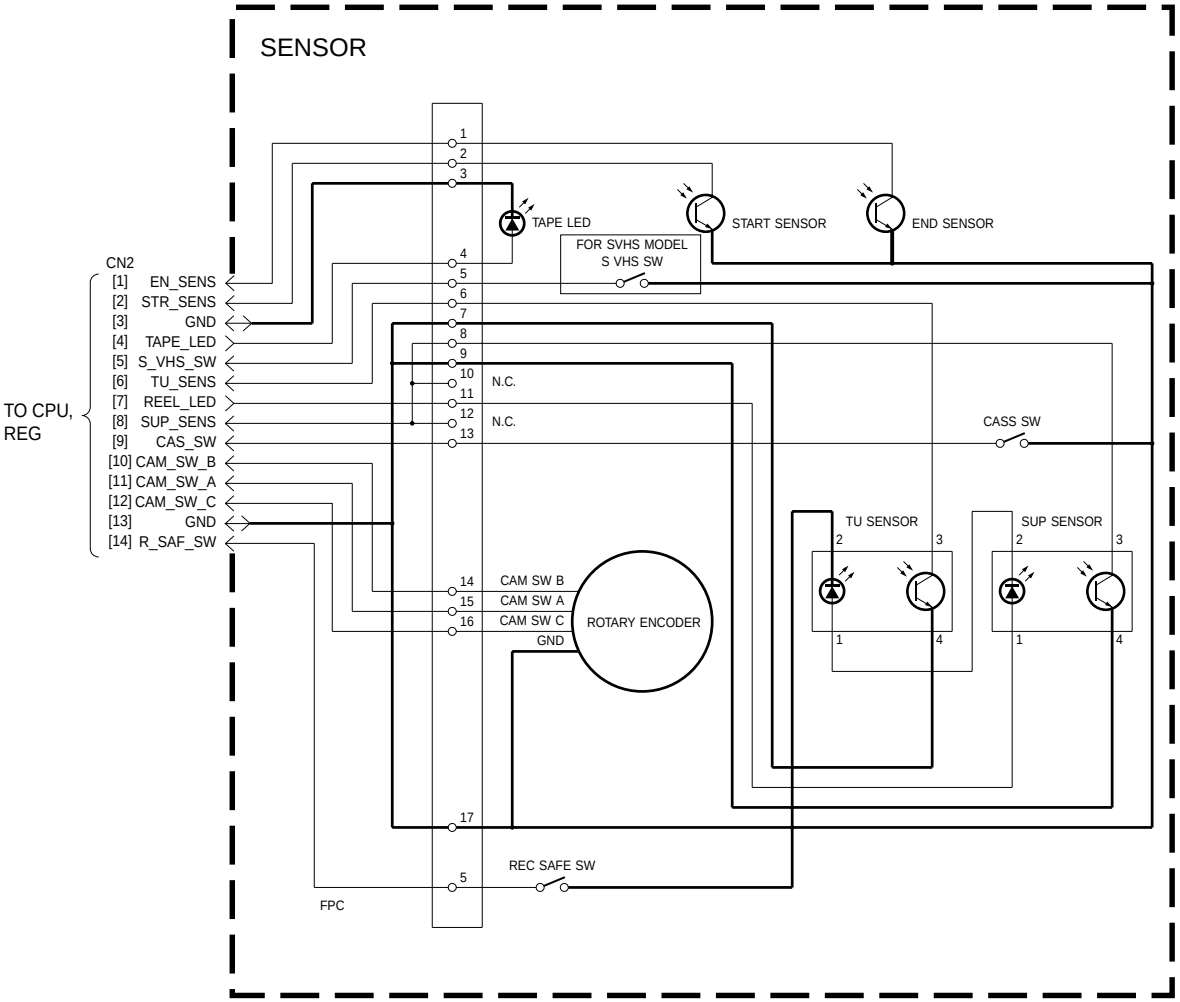
7.17. REAR SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



NV-VZ14EG/EGE/EGM, NV-VZ15B/EG/EGE/EGM/EN, NV-VZ55EG/EGM
REAR UNIT SCHEMATIC DIAGRAM

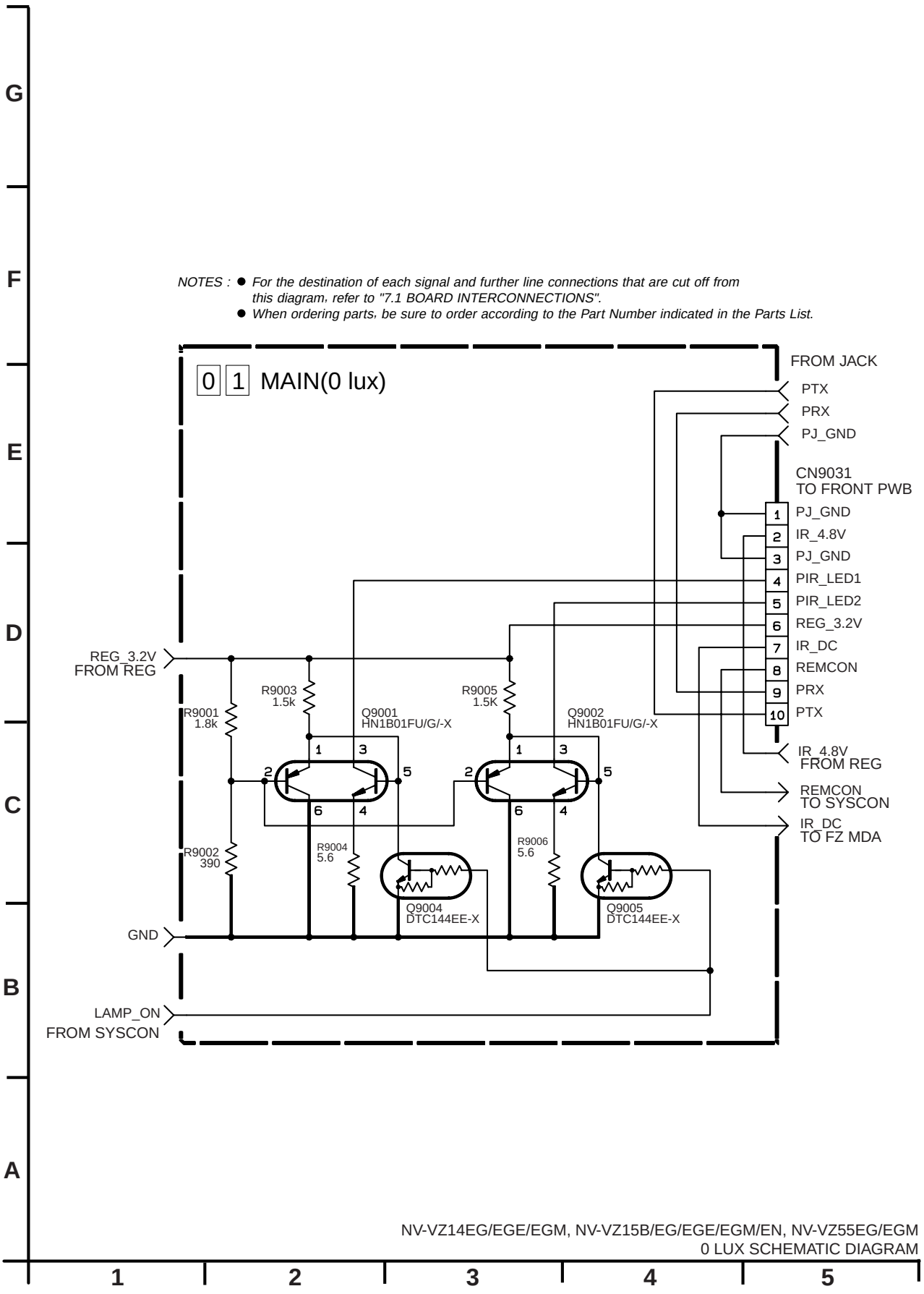
NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



NV-VZ14EG/EGE/EGM, NV-VZ15B/EG/EGE/EGM/EN, NV-VZ55EG/EGM
SENSOR SCHEMATIC DIAGRAM

7.19. 0 LUX SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "7.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*



NV-VZ14EG/EGE/EGM, NV-VZ15B/EG/EGE/EGM/EN, NV-VZ55EG/EGM
0 LUX SCHEMATIC DIAGRAM

<CPU>

MODE PIN NO.	REC	PLAY
IC101		
1	3.2	3.2
2	3.2	3.2
3	0	0
4	3.3	3.2
5	0	0
6	0	0
7	3.2	3.2
8	3.2	3.2
9	0.7	0
10	3.2	3.2
11	0	0
12	0	1.3
13	3.2	3.2
14	0	0
15	0	0
16	1.5	0
17	0	0
18	3.2	3.2
19	0	0
20	0	0
21	3.2	0
22	1.6	0
23	3.2	3.2
24	2.9	2.7
25	3.1	3.1
26	1.6	1.5
27	0	0
28	0	0
29	3.2	3.2
30	3.2	3.2
31	3.2	2.5
32	3.2	3.2
33	3.2	3.2
34	3.2	3.2
35	3.2	3.2
36	0	0
37	0	0
38	0	3.2
39	3.2	3.2
40	0	0
41	0	0
42	3.2	0
43	0	0
44	0	0
45	0	0
46	3.0	3.0
47	0	0
48	0	0
49	3.0	0
50	3.0	3.0
51	0	3.0
52	3.1	3.1
53	-	-
54	-	-
55	3.2	3.3
56	0	0
57	1.3	1.3
58	1.7	1.7
59	2.1	0
60	0	0
61	2.9	2.9
62	2.9	2.8
63	0	0
64	0	0
65	0	0
66	3.3	3.3
67	3.2	3.2
68	0	0
69	3.2	3.2
70	1.5	1.5
71	-	-
72	0	0
73	1.6	1.6
74	0	0
75	0	0
76	0	0
77	0	0
78	0	0
79	0	0
80	0	0
81	3.2	3.2
82	0	0
83	1.9	0
84	0	0
85	3.2	0
86	3.2	0
87	0	0
88	0	0
89	0	0
90	3.2	3.2
91	3.3	3.3
92	3.0	3.0
93	3.1	3.0
94	3.2	3.2
95	3.0	3.0
96	0	0
97	0	0
98	0	0
99	3.2	3.2
100	0	0
101	3.0	3.0
102	0	0
103	1.6	1.6
104	1.0	0.6
105	3.2	3.2
106	0	0
107	3.1	3.2
108	3.1	3.1
109	1.7	1.6
110	0	0
111	1.6	1.7
112	1.8	1.8
113	2.9	2.9
114	0	0
115	2.9	3.0
116	3.2	3.2
117	0	2.8
118	3.2	3.2
119	3.2	3.2
120	3.2	0
121	2.9	2.9
122	0	0
123	0	0
124	0	0
125	2.2	0.5
126	3.2	3.2
127	0	0
128	3.2	3.2
129	0	0
130	1.7	1.7
131	0	3.3
132	0	-
133	3.3	3.3
134	0	0
135	3.2	3.2
136	3.2	3.2
137	0	0
138	0	0
139	0	0
140	3.2	3.2
141	3.2	3.2
142	3.2	3.2
143	3.2	3.2
144	3.2	3.2
145	0.8	0.8
146	0.8	0.8
147	0.8	0.8
148	0.7	0.7
149	0.7	0.7
150	0.8	0.7
151	0.7	0.6
152	0.8	0.6
153	3.2	3.2
154	0	0
155	0.7	0.8
156	0.8	0.6
157	0.8	0.7
158	0.8	0
159	0.6	0.6
160	0.7	0.5
161	0.5	0.7
162	0.6	0.5
163	0	0
164	3.2	3.2
165	0	0
166	3.2	3.2
167	0	0
168	0	0
169	1.6	1.6
170	3.2	3.2
171	0	0
172	0	0
173	0	0
174	0	3.2
175	3.2	3.2
176	3.2	3.2
IC102		
1	3.2	3.2
2	3.2	3.2
3	3.2	3.2
4	0	0
5	3.2	3.2
6	3.2	3.2
7	3.2	3.2
8	3.2	3.2

MODE PIN NO.	REC	PLAY
IC103		
1	0	0
2	3.2	3.2
3	3.2	3.2
4	0	0
5	0	0
6	0.6	0.6
7	0.7	0.8
8	3.1	3.1
IC104		
1	3.2	3.2
2	3.2	3.2
3	0	0
4	0	0
IC105		
1	3.2	3.2
2	3.2	3.2
3	0	0
4	2.7	2.6
5	3.2	3.2
IC1801		
1	2.7	2.7
2	0	0
3	4.8	4.8
Q101		
E	11.1	11.1
C	11.1	11.1
B	10.3	10.3
Q102		
E	0	0
C	0	0
B	3.2	3.2
Q103		
E	0	0
C	0	4.8
B	0.7	0
Q104		
E	0	0
C	4.5	4.5
B	0	0
Q105		
E	4.8	4.8
C	0	-0.5
B	4.8	4.7
Q107	-	-
Q108		
E	0	0
C	0	0
B	3.2	3.2
Q109		
E	0	0
C	2.1	2.1
B	0	0

<M.MDA>

MODE PIN NO.	REC	PLAY
IC1601		
1	0	0
2	0	0
3	1.7	1.7
4	2.6	2.6
5	2.4	3.3
6	1.7	1.7
7	1.6	1.6
8	0	0
9	0	0
10	1.2	-
11	0	0.4
12	0.4	0.4
13	1.8	1.8
14	0	0
15	1.4	1.4
16	8.4	8.5
17	11.1	11.1
18	10.3	10.3
19	1.6	1.6
20	0	0
21	1.4	0
22	3.2	3.2
23	0	0
24	0	0
25	1.6	1.6
26	2.9	3.0
27	1.6	1.7
28	1.2	1.2
29	1.2	-
30	1.2	-
31	0	0
32	1.2	1.2
33	1.2	0
34	1.2	-
35	0	0
36	0	3.0
37	0	0
38	1.4	1.5
39	1.6	1.6
40	1.3	1.3
41	3.1	3.1
42	0	2.5
43	1.5	1.6
44	1.6	1.6
45	1.6	1.6
46	1.6	1.6
47	-	-
48	-	-
49	-	-
50	-	-
51	-	-
52	-	-
53	-	-
54	0.8	0.8
55	0	0
56	11.1	11.1
57	0	0
58	0	0
59	0	1.7
60	0	1.4
61	1.6	1.6

MODE PIN NO.	REC	PLAY
62	1.4	1.4
63	1.7	1.6
64	1.5	1.4
IC1602		
1	0.4	0.4
2	0	0
3	2.2	2.2
4	3.2	3.2
5	3.2	3.2
Q1601		
E	1.7	1.7
C	11.1	11.1
B	5.8	5.8

<VTR ASP>

MODE PIN NO.	REC	PLAY
IC2001		
1	1.5	3.2
2	1.6	0
3	1.6	0
4	1.5	3.2
5	1.6	3.2
6	1.5	0
7	0	0
8	1.5	0
9	1.6	3.2
10	1.5	0
11	1.6	3.2
12	1.5	0
13	1.6	3.2
14	3.1	3.2
IC3501		
1	2.2	2.2
2	2.2	2.5
3	2.2	2.2
4	2.2	2.1
5	2.2	2.5
6	2.2	2.2
7	4.7	4.7
8	2.2	2.1
9	2.2	2.5
10	2.2	2.1
11	2.1	2.1
12	2.2	2.5
13	2.2	2.1
14	0	0
15	3.2	0
16	2.8	1.4
17	4.0	5.2
18	0	0
19	2.8	0
20	2.8	0
21	1.1	2.1
22	0	2.1
23	2.1	2.1
24	4.7	4.7
25	2.8	2.4
26	0	2.9
27	2.5	2.5
28	2.9	2.9

MODE PIN NO.	REC	PLAY
29	0	0
30	1.5	1.5
31	3.2	3.2
32	0.7	0
33	3.2	3.2
34	1.8	1.8
35	1.9	0
36	0	0
37	2.6	2.3
38	3.0	3.0
39	4.7	4.7
40	2.4	2.1
41	2.2	2.1
42	2.9	2.9
43	2.8	2.5
44	2.7	2.4
45	2.4	2.5
46	2.5	2.5
47	0	0
48	2.5	2.5
49	2.5	2.5
50	0	0
51	2.4	2.4
52	2.5	2.4
53	2.5	2.5
54	4.8	4.8
55	2.4	2.5
56	0	1.4
Q2001		
E	3.1	3.2
C	1.5	3.2
B	3.2	0
Q2007		
1(E)	-10.4	0
2(B)	-16.2	0.7
3(C)	0	0
4(E)	-10.4	0
5(B)	-16.2	0.7
6(C)	0	0
Q2008		
1(E)	3.1	1.8
2(B)	3.2	1.2
3(C)	3.2	1.2
4(E)	3.1	1.8
5(B)	3.2	1.2
6(C)	-16.4	0.8
Q2021		
E	0	0
C	0.6	0
B	0	0
Q2022		
E	0	0
C	0	0
B	0	0
Q2023		
E	0	0
C	0	0
B	0	0
Q2071		
E	4.5	4.5
C	4.7	4.8
B	4.7	4.8

MODE PIN NO.	REC	PLAY
Q3501		
1(E)	2.2	2.2
2(B)	2.4	2.2
3(C)	2.2	2.2
4(E)	2.2	2.2
5(B)	2.4	2.5
6(C)	2.2	2.2
Q3502		
1(E)	2.2	2.1
2(B)	0	2.2
3(C)	2.2	2.1
4(E)	2.2	2.1
5(B)	2.3	2.2
6(C)	2.2	2.1
Q3505		
E	0	0
C	2.8	0
B	0	2.7
Q3901		
1(E)	4.6	4.7
2(B)	0	4.9
3(C)	3.9	4.9
4(E)	0	0
5(B)	3.9	4.9
6(C)	0	0

<SPEAKER>

MODE PIN NO.	REC	PLAY
IC2401		
1	2.9	2.9
2	1.2	1.2
3	1.2	1.2
4	0	1.3
5	1.3	1.3
6	3.2	3.2
7	0	0
8	1.3	1.3
Q2401		
E	0	0
C	2.9	2.9
B	0	0

<DSP>

MODE PIN NO.	REC	PLAY
IC4001		
1	3.2	3.2
2	0	1.2
3	0	0
4	1.6	1.6
5	3.2	3.2
6	3.2	3.2
7	1.4	1.4
8	1.4	1.4
9	1.4	1.4
10	3.2	3.2
11	1.4	1.5
12	1.4	1.6
13	1.4	1.5

MODE PIN NO.	REC	PLAY
14	1.4	1.6
15	0	0
16	1.4	1.5
17	1.4	1.5
18	1.5	1.5
19	1.8	1.8
20	1.4	1.5
21	1.4	1.5
22	1.4	1.5
23	1.4	1.5
24	1.4	1.5
25	1.4	1.6
26	0	0
27	1.8	1.8
28	0	0
29	0	0
30	1.6	1.6
31	0	0.6
32	3.0	3.0
33	1.8	1.8
34	3.1	3.1
35	0	0
36	3.1	3.1
37	0	0
38	2.5	0
39	1.2	1.6
40	1.2	1.6
41	3.2	3.2
42	1.2	1.6
43	1.2	1.6
44	1.9	1.6
45	1.5	1.6
46	1.6	1.6
47	0.6	1.6
48	0	0
49	1.1	1.4
50	1.2	1.4
51	1.2	1.5
52	1.6	1.5
53	1.5	1.5
54	1.6	1.6
55	0	0
56	0	0
57	0	0
58	3.2	3.2
59	1.5	1.5
60	1.5	1.5
61	1.4	1.7
62	1.3	1.5
63	1.5	1.7
64	1.7	1.5
65	1.7	1.8
66	0.9	0.9
67	1.4	1.7
68	1.4	1.7
69	0	0
70	1.8	1.8
71	1.4	1.7
72	1.6	1.6
73	1.2	1.4
74	1.2	1.3
75	1.2	1.5

MODE PIN NO.	REC	PLAY
76	1.8	1.8
77	1.2	1.2
78	1.3	1.5
79	1.5	1.5
80	1.5	1.5
81	0.7	0.6
82	0	0
83	1.8	1.8
84	1.1	1.5
85	1.1	1.5
86	1.2	1.6
87	1.6	1.5
88	1.5	1.4
89	0	0
90	0	0
91	0	0
92	3.0	3.0
93	0	0
94	3.2	3.2
95	2.7	2.7
96	2.8	2.7
97	2.8	2.7
98	3.2	3.2
99	0	0
100	0	1.5
101	0.6	1.7
102	1.6	1.6
103	1.0	1.5
104	0	0
105	1.9	1.5
106	1.1	1.5
107	1.1	1.5
108	1.2	1.5
109	1.2	1.5
110	1.2	1.5
111	3.2	3.2
112	1.4	1.6
113	2.9	0
114	3.1	0
115	0	0
116	0	0
117	0	0
118	1.5	1.5
119	0	0
120	0	0
121	1.5	1.6
122	1.5	1.5
123	1.8	1.8
124	3.2	3.2
125	3.2	3.2
126	0.7	0
127	0	0
128	1.8	1.8
129	1.6	1.6
130	1.5	1.5
131	1.5	1.5
132	1.5	1.5
133	1.8	1.8
134	1.5	1.5
135	3.0	3.0
136	0	0
137	1.6	1.5

MODE PIN NO.	REC	PLAY
138	1.6	1.5
139	0	3.2
140	3.2	3.2
141	-	-
142	3.1	3.1
143	0	0
144	3.1	3.1
145	0	0
146	0.4	0.4
147	0.8	0.8
148	0.7	0.7
149	0.7	0.7
150	2.4	2.4
151	0	0
152	3.1	3.1
153	0	0
154	0	0
155	3.1	3.1
156	0	0
157	2.4	2.4
158	0.7	0.7
159	0.7	0.7
160	0.6	0.5
161	0.6	0.6
162	0	0
163	3.1	3.1
164	0	0
165	0	0
166	3.1	3.1
167	0	0
168	0.8	0.9
169	0.8	0.8
170	0.7	0.7
171	0.7	0.7
172	2.4	2.4
173	0	0
174	3.1	3.1
175	0	0
176	0	0
177	3.2	3.2
178	1.5	1.5
179	0	0
180	1.5	1.5
181	3.2	3.2
182	0	0
183	3.1	3.1
184	3.0	3.0
185	1.3	1.2
186	0	0
187	0	0
188	0	0
189	0	0
190	1.8	1.8
191	0	0
192	20	0
193	0	0
194	0	0
195	0	0
196	0	0
197	0	0
198	0	0
199	0	0

MODE PIN NO.	REC	PLAY
200	3.2	3.2
201	0	0
202	0	0
203	0	0
204	1.8	1.8
205	0	0
206	3.1	3.1
207	0	0
208	2.4	2.4
209	0.7	0.7
210	0.7	0.7
211	0.6	0
212	0	0
213	0	0
214	3.1	3.1
215	0	0
216	0	0
217	3.1	3.1
218	0	0
219	1.6	1.6
220	1.5	1.5
221	1.2	1.2
222	1.6	1.6
223	1.7	1.7
224	0	0
225	3.1	3.1
226	0	0
227	2.5	2.9
228	3.1	1.4
229	2.0	2.0
230	0	0
231	3.2	3.2
232	1.6	1.6
233	0	1.4
234	2.3	2.3
235	1.6	1.6
236	0	0
237	1.4	1.5
238	1.5	1.5
239	1.5	1.5
240	0	0
IC4002		
1	0	0
2	0	0
3	1.5	1.5
4	1.1	1.6
5	1.1	1.5
6	1.1	1.5
7	0.6	0.6
8	1.3	1.3
9	1.3	1.4
10	1.1	1.5
11	1.0	1.1
12	1.1	1.5
13	1.3	1.3
14	1.2	1.3
15	1.5	1.4
16	0	0
17	2.7	2.7
18	3.0	3.0
19	3.2	3.2
20	0	0

MODE PIN NO.	REC	PLAY
21	3.2	3.2
22	2.8	2.7
23	2.7	2.7
24	0	0
25	1.5	1.4
26	1.4	1.5
27	1.5	1.5
28	1.4	1.6
29	1.3	1.3
30	1.4	1.5
31	1.5	1.5
32	1.7	1.6
33	0.8	0.9
34	1.3	1.8
35	1.4	1.9
36	1.4	1.8
37	1.6	1.8
38	0	0
IC4003		
1	3.1	3.1
2	2.5	2.5
3	2.9	2.7
4	3.2	3.2
5	3.2	3.2
6	0	0
7	1.3	1.3
8	1.3	1.3
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	3.1	3.1
20	3.0	2.9
Q4001		
E	0	0
C	0	0
B	0	0

<F/Z/I/MDA>

MODE PIN NO.	REC	PLAY
IC4201		
1	2.2	0.5
2	1.9	1.9
3	1.9	1.9
4	4.8	4.8
5	1.9	1.9
6	1.9	1.9
7	1.9	1.9
8	1.6	1.6
9	1.9	1.9
10	1.9	1.9
11	0	0
12	1.9	1.9
13	1.9	1.9
14	2.5	2.5

MODE PIN NO.	REC	PLAY
IC4202		
1	1.8	3.6
2	1.5	0.4
3	1.4	0.4
4	4.8	4.8
5	2.1	0
6	2.1	0.5
7	1.2	0
8	0	0.9
9	0	0
10	0	0
11	0	0
12	1.9	1.9
13	1.9	1.9
14	1.9	1.9
IC4501		
1	0	0
2	0.8	0.8
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	3.2	3.2
9	4.8	4.8
10	0.6	2.2
11	0	0
12	0.6	2.2
13	4.8	4.8
14	0.6	0.8
15	0	0
16	0.6	3.6
17	0	0
18	0	0
19	0	0
20	0	0
21	0	0
22	0	0
23	4.8	4.8
24	1.0	0.8
25	0	0
26	1.0	0.8
27	4.8	4.8
28	1.0	0.7
29	0	0
30	1.0	0.7
31	0	0
32	0	0
33	0	0
34	0.7	0
35	3.2	3.2
36	1.6	1.6
37	1.5	1.5
38	3.2	3.2
Q4201		
E	0	0
C	1.3	1.3
B	0.9	0.9
Q4202		
E	1.3	2.9
C	4.8	4.8
B	2.0	3.6

MODE PIN NO.	REC	PLAY
Q4251		
E	0	0
C	4.5	4.5
B	-	-
Q4501		
E	0	0
C	4.2	4.2
B	0	0

<V OUT>

MODE PIN NO.	REC	PLAY
IC4701	-	-
IC4702		
1	0	0
2	2.3	2.4
3	0	0
4	0	0
5	0	0
6	0	0
7	1.9	1.9
8	0	0
9	2.3	2.3
10	0	0
11	2.2	2.1
12	2.4	2.4
13	4.7	4.8
14	1.9	1.9
15	2.0	2.0
16	4.7	4.8
Q4701		
E	1.1	1.1
C	0	0
B	0.5	0.5
Q4702		
E	1.2	1.2
C	0	0
B	0.5	0.5

<TG/CDS>

MODE PIN NO.	REC	PLAY
IC5201		
1	0	0
2	1.2	1.5
3	1.2	1.5
4	1.1	1.5
5	1.0	1.5
6	1.0	1.5
7	2.0	1.5
8	1.0	1.5
9	1.3	1.5
10	0.6	1.6
11	0	1.5
12	0	0
13	0	0
14	0	0
15	3.0	3.1
16	1.6	1.5
17	3.0	0

MODE PIN NO.	REC	PLAY
18	2.8	0
19	2.7	0
20	2.5	0
21	0	0
22	0	0
23	3.0	3.1
24	0	0
25	0	0
26	2.0	0
27	1.5	1.5
28	2.0	0
29	2.0	0
30	0	0
31	3.0	3.1
32	2.0	2.0
33	1.0	1.0
34	1.5	1.5
35	1.2	1.2
36	0	0
37	0	0
38	3.1	3.2
39	0	1.0
40	0	0
41	3.0	3.1
42	0	0
43	3.2	3.2
44	3.1	3.1
45	0.7	0
46	3.0	3.1
47	0	0
48	0	0
IC5202		
1	3.0	3.1
2	3.0	3.1
3	1.5	1.6
4	3.0	0
5	3.0	0
6	2.5	0
7	0	0
8	1.5	1.5
9	3.0	3.1
10	1.5	1.6
11	1.2	1.2
12	1.4	1.6
13	3.0	3.1
14	0	0
15	2.6	0
16	2.6	0
17	2.6	0
18	2.6	0
19	3.0	3.1
20	3.0	3.1
21	1.7	0
22	1.5	0
23	0	0
24	0	2.8
25	0	0
26	0	0
27	0	0
28	0	0
29	-7.8	0
30	0	14.9

MODE PIN NO.	REC	PLAY
31	14.9	14.9
32	-7.8	14.9
33	-8.3	14.9
34	-8.3	-8.4
35	0	0
36	0	0
37	0	0
38	0	0
39	3.2	3.2
40	0.7	0
41	0	0
42	3.0	3.1
43	0	0
44	3.0	3.1
45	0	0
46	3.2	0
47	2.9	0
48	3.1	0

<REG>

MODE PIN NO.	REC	PLAY
IC6001		
1	3.2	3.2
2	3.2	3.2
3	3.2	3.2
4	-	-
5	0	0
6	11.1	11.1
7	1.0	1.0
8	1.2	1.3
9	2.2	2.2
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	2.2	2.2
17	0	0
18	2.2	2.2
19	1.0	1.0
20	0.7	0.7
21	1.0	1.0
22	0.5	0.5
23	1.0	1.0
24	0.8	0.8
25	1.0	1.0
26	0.6	0.6
27	0.8	0.8
28	0	0
29	1.0	1.0
30	0	0
31	2.4	2.4
32	1.1	1.1
33	0	0
34	2.2	2.2
35	2.2	2.2
36	2.2	2.2
37	8.0	8.0
38	0	0

MODE PIN NO.	REC	PLAY
39	11.1	11.1
40	8.1	8.1
41	6.2	6.2
42	9.1	9.1
43	7.8	7.8
44	0	0
45	11.1	11.1
46	0	0
47	0	0
48	3.3	3.3
IC6801		
1	3.3	3.3
2	0	0
3	0	0
4	11.0	11.0
5	11.1	11.0
Q6101		
1	7.8	7.8
2	11.1	11.1
3	0	0
4	3.2	3.2
5	3.2	3.2
Q6201		
1	9.1	9.1
2	11.1	11.1
3	0	0
4	1.8	1.8
5	1.8	1.8
Q6301		
1	6.1	6.1
2	11.1	11.1
3	8.1	8.1
4	0	0
5	11.1	11.1
6	4.8	4.8
Q6306		
D	0	0
S	0	0
G	0.7	0.5
Q6401		
1	10.0	10.0
2	11.1	11.1
3	0	0
4	3.4	3.4
5	3.4	3.4
Q6501		
1	10.3	10.3
2	11.1	11.1
3	0	0
4	1.7	1.7
5	1.7	1.7
Q6608		
E	0	0
C	14.9	14.9
B	-0.9	-0.9
Q6701		
1	0	0
2	0	0
3	11.1	11.1
4	11.1	11.1
5	0	0
6	0	0

MODE PIN NO.	REC	PLAY
Q6702		
E	0	0
C	0	0
B	0	0
Q6802		
E	3.3	3.3
C	3.3	3.3
B	0	0
Q6811		
E	1.4	1.4
C	0	0
B	0.8	0.8

<LCD/CVF>

MODE PIN NO.	REC	PLAY
Q7011	-	-
Q7013		
1(E)	0.8	0.8
2(B)	1.3	1.3
3(C)	4.8	4.8
4(E)	2.3	2.3
5(B)	2.9	2.9
6(C)	-	-
Q7015		
1(E)	0.8	0.8
2(B)	1.3	1.4
3(C)	4.8	4.8
4(E)	2.3	2.3
5(B)	2.9	2.9
6(C)	2.9	2.9

<BW/CVF>

MODE PIN NO.	REC	PLAY
Q7301		
E	0	0
C	0	0
B	0.4	0.4
Q7310		
E	4.8	4.8
C	0	0
B	4.8	4.8
Q7311		
E	0	0
C	4.8	4.8
B	0	0

<CCD>

MODE PIN NO.	EE
IC5301	
1	-7.8
2	0
3	-0.3
4	-0.3
5	0
6	0
7	0
8	0
9	0
10	6.9
11	-8.3
12	8.6
13	1.6
14	1.2
Q5301	
E	0
C	14.9
B	11.2

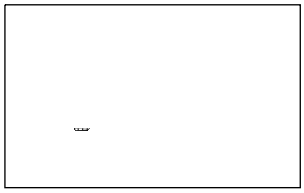
<MONITOR>

MODE PIN NO.	EE
IC7601	
1	0.8
2	3.0
3	3.2
4	0
5	3.1
6	3.0
7	3.1
8	0
9	0
10	0
11	0
12	0
13	2.5
14	1.6
15	0
16	0
17	0
18	0
19	0
20	0
21	0.4
22	1.6
23	0
24	0
25	1.4
26	0
27	1.4
28	2.5
29	1.4
30	0
31	0
32	3.2
33	1.6
34	0
35	3.2
36	1.5
37	1.5
38	0
39	3.2
40	0
41	3.2
42	0
43	3.2
44	0
45	3.2
46	0
47	3.2
48	0
IC7602	
1	6.0
2	6.0
3	6.0
4	0
5	1.6
6	1.6
7	9.8
8	12.1
IC7603	-

MODE PIN NO.	EE
Q7501	
E	0
C	4.4
B	0.4
Q7502	
E	0
C	4.4
B	0.4
Q7503	
E	4.5
C	4.5
B	0
Q7504	
E	0
C	0
B	3.2
Q7601	
E	-8.7
C	0
B	0
Q7602	
E	-8.0
C	-14.7
B	-8.3
Q7603	
E	-8.4
C	-1.8
B	-8.0
Q7604	
E	-8.4
C	0
B	-8.7
Q7606	
E	3.2
C	-13.0
B	2.5
Q7607	
E	0
C	0
B	2.5

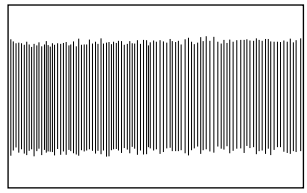
— VTR ASP —

WF1 IC3501-19



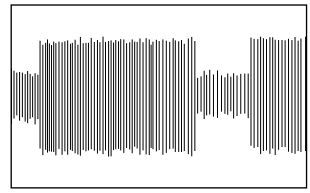
REC 0.1 Vp-p
2 mV/10 µsec/DIV

WF2 IC3501-20



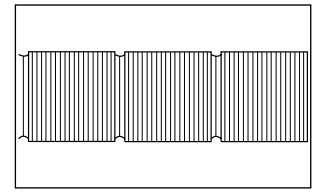
REC 0.57 Vp-p
10 mV/10 µsec/DIV

WF3 IC3501-21



PB 24 mVp-p
1 mV/5 msec/DIV

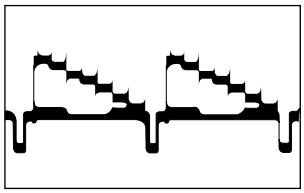
WF4 IC3501-25



PB 0.24 Vp-p
20 mV/5 msec/DIV

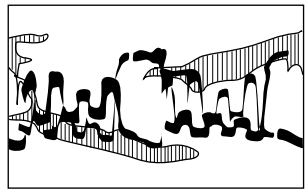
— DSP —

WF1 IC4001-146



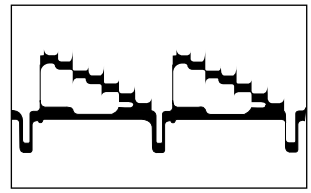
REC/PB 0.28 Vp-p
10 mV/20 µsec/DIV

WF2 IC4001-147



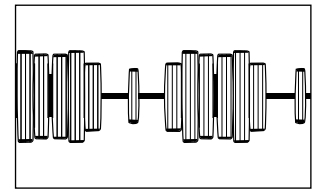
REC 0.52 Vp-p
20 mV/10 µsec/DIV
PB 0.3 Vp-p
10 mV/10 µsec/DIV

WF3 IC4001-160



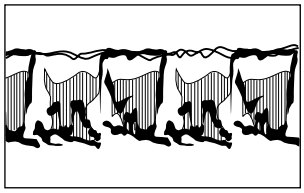
REC/PB 0.28 Vp-p
10 mV/20 µsec/DIV

WF4 IC4001-161



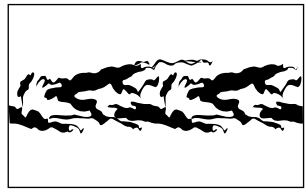
REC 0.15 Vp-p
PB 0.33 Vp-p
5 mV/10 µsec/DIV

WF5 IC4001-168



REC 0.76 Vp-p
20 mV/10 µsec/DIV
PB 0.17 Vp-p
5 mV/10 µsec/DIV

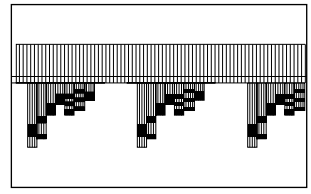
WF6 IC4001-169



REC 0.48 Vp-p
PB 0.13 Vp-p
10 mV/10 µsec/DIV

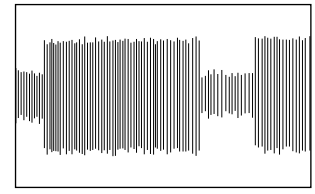
— TG/CDS —

WF1 IC5201-26



REC 0.26 Vp-p
5 mV/10 µsec/DIV

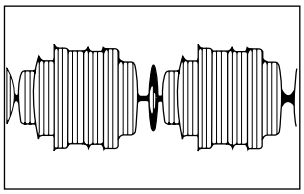
WF2 IC5201-27



PB 24 mVp-p
1 mV/5 msec/DIV

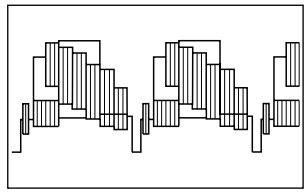
— V OUT —

WF1 IC4702-9



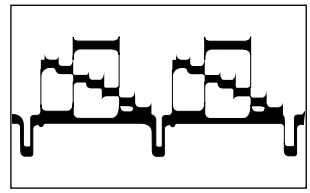
REC/PB 0.34 Vp-p
10 mV/10 µsec/DIV

WF2 IC4702-12



REC 0.66 Vp-p
PB 0.64 Vp-p
10 mV/10 µsec/DIV

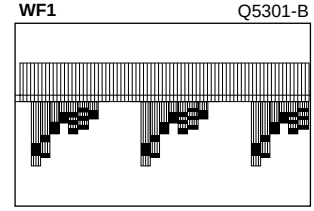
WF3 IC4702-15



REC 0.57 Vp-p
PB 0.55 Vp-p
10 mV/10 µsec/DIV

— CCD —

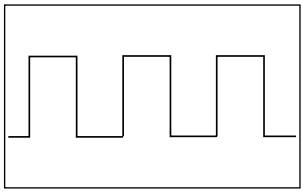
WF1 Q5301-B



EE 0.52 Vp-p
10 mV/10 µsec/DIV

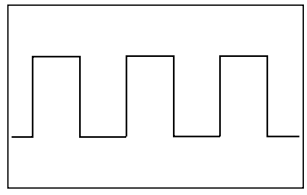
— CPU —

WF1 IC101-109



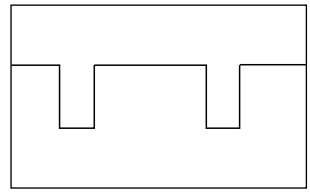
REC/PB 0.96 Vp-p
20 mV/0.5 msec/DIV

WF2 IC101-111



REC/PB 0.96 Vp-p
20 mV/0.1 msec/DIV

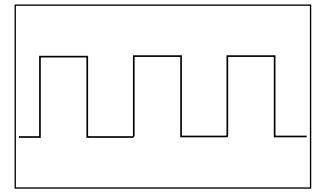
WF3 IC101-113



REC/PB 0.9 Vp-p
50 mV/5 msec/DIV

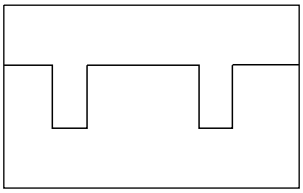
— M.MDA —

WF1 IC1601-25



REC/PB 0.96 Vp-p
20 mV/0.1 msec/DIV

WF2 IC1601-26



REC/PB 0.9 Vp-p
50 mV/5 msec/DIV

COMPONENT PARTS LOCATION GUIDE (1/2)

REF.NO.	LOCATION		
CAPACITOR			
C103	B	C	2C
C104	A	C	2B
C105	A	C	2C
C107	A	C	3A
C108	A	C	1B
C109	A	C	4A
C110	B	C	4A
C111	A	C	6A
C112	A	C	4C
C113	A	C	4A
C114	B	C	5A
C115	A	C	5C
C116	B	C	5A
C118	A	C	3B
C119	B	C	1C
C120	B	C	1C
C121	A	C	4A
C122	A	C	3A
C123	A	C	3B
C124	A	C	3B
C125	B	C	3A
C126	B	C	3A
C127	A	C	3B
C128	A	C	3B
C129	A	C	3B
C131	A	C	4C
C132	A	C	3C
C133	A	C	5B
C134	A	C	5C
C135	B	C	4D
C136	A	C	1C
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CN3	A	C	5A
CN4	A	C	6D
CN5	A	C	4D
CN6	A	C	6D
CN7	A	C	6A
CN8	A	C	5D
CN11	A	C	2A
CN12	A	C	2A
CN13	A	C	4A
CN15	A	C	7B
CN16	A	C	6D
CN18	A	C	5A
CN22	A	C	7A
CN25	A	C	2D
CN27	A	C	5C
CN28	B	C	1D
CN9012	A	C	2A
CN9013	A	C	4A
CN9018	A	C	5B
CN9025	A	C	3D
CN9031	A	C	6C
DIODE			
D101	B	C	3A
D102	A	C	1B
D103	B	C	1C
D104	B	C	1C
D4001	A	C	5B
D5201	B	C	6A
D6301	B	C	3C
D6601	B	C	2D
D6602	B	C	2D
D6616	B	C	2C
D6621	B	C	2C
D6701	A	C	3D
D6702	B	C	2D
D7301	B	C	2A
D8001	B	C	1C
D8002	B	C	1C
D9101	A	C	6C
D9102	A	C	6C
FUSE			
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F6002	B	C	7D
F6004	A	C	6C
F7301	A	C	3A
IC			
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IC102	A	C	3A
IC103	B	C	3A
IC104	A	C	2B
IC105	A	C	1C
IC1601	A	C	6D
IC1602	A	C	4D
IC1801	A	D	7A
IC2001	B	C	5A
IC2401	A	C	5B
IC3501	B	C	4D
IC4001	B	C	5B
IC4002	B	C	3A
IC4003	A	C	5C
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IC4202	A	C	6B
IC4501	B	C	6B
IC4701	B	C	1B
IC4702	B	C	1B
IC5201	B	C	6A
IC5202	B	C	6A
IC5301	A	D	1D
IC6001	B	C	3C
IC6002	A	C	2C
IC6801	B	C	2D
IC7005	B	C	6D
IC7008	A	C	6C
IC7301	B	C	1A
IC7302	A	C	1A
IC8001	B	C	1C
IC9101	B	C	6C
COIL			
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L501	B	C	2C
L1601	B	C	7D
L1602	B	C	6D
L2001	B	C	5A
L2003	B	C	5A
L2004	B	C	6A
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L2021	B	C	5D
L2022	B	C	5D
L2023	B	C	5D
L2051	B	C	1B
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L3503	B	C	4D
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L4201	A	C	6C
L4501	A	C	7B
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L4503	B	C	6B
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L6001	B	C	2D
L6002	B	C	2D
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L6201	A	C	3C
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L7304	A	C	2A
L8001	A	C	2C
L9101	A	C	6C
L9102	A	C	6C
TRANSISTOR			
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Q105	A	C	1D
Q106	A	C	2D
Q107	A	C	2D
Q108	A	C	4A
Q109	A	C	4A
Q112	A	C	3B
Q113	A	C	5B
Q114	A	C	5B
Q1601	B	C	6D
Q2001	B	C	5A
Q2007	B	C	6A
Q2008	B	C	5A
Q2021	B	C	5D
Q2022	B	C	5D
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Q3505	B	C	4D
Q3901	A	C	4D
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Q4201	A	C	6B
Q4202	A	C	6A
Q4251	A	D	7A
Q4501	B	C	6B
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Q4503	B	C	6B
Q4701	A	C	6B
Q4702	A	C	6C
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Q6608	B	C	2C
Q6621	B	C	2D
Q6622	B	C	2C
Q6701	A	C	3D
Q6702	B	C	3D
Q6801	B	C	2D
Q6802	B	C	2D
Q6811	A	C	2D
Q7001	A	C	5D
Q7003	A	C	5D
Q7005	A	C	5D
Q7011	A	C	5C

COMPONENT PARTS LOCATION GUIDE

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Q7304	B	C	1A
Q7305	B	C	1A
Q7306	B	C	3A
Q7307	B	C	3A
Q7308	B	C	2A
Q7309	B	C	2A
Q7310	A	C	3A
Q7311	A	C	3A
Q7312	B	C	1A
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Q9005	B	C	7C
Q9201	A	C	3A
Q9202	A	C	3A
Q9203	A	C	3A
Q9204	A	C	3A
RESISTOR			
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R103	A	C	3C
R104	A	C	1B
R105	A	C	1B
R106	A	C	1B
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R129	A	C	1C
R130	B	C	4A
R131	A	C	2B
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R142	A	C	2C
R143	A	C	3B
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R160	A	C	6B
R162	A	C	2A
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R165	A	C	5A
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R167	A	C	6B
R168	A	C	6B
R169	B	C	4A
R170	A	C	6B
R171	A	C	2B
R172	A	C	3B
R176	A	C	3B
R177	A	C	4A
R178	A	C	5A
R179	A	C	5B
R180	A	C	5B
R181	A	C	1D
R182	A	C	1C
R183	A	C	1C
R184	A	C	1C
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R4034	A	C	3B
R4035	A	C	3B
R4036	A	C	4C
R4037	A	C	4C
R4201	A	C	7B
R4202	A	C	6B
R4203	A	C	6B
R4204	A	C	6B
R4205	B	C	7B
R4206	A	C	6B
R4207	A	C	6B
R4208	A	C	6B
R4209	A	C	6B
R4210	B	C	6B
R4211	B	C	6C
R4214	B	C	6C
R4215	A	C	6B
R4216	A	C	6B
R4217	A	C	6B
R4218	A	C	6B
R4219	A	C	6B
R4220	A	C	6A
R4221	A	C	6B
R4222	A	C	7B
R4223	A	C	7B
R4224	A	C	7B
R4225	A	C	6A
R4251	B	C	6B
R4252	B	C	6C
R4253	B	C	6C
R4254	B	C	6B
R4255	B	C	6C
R4256	B	C	6C
R4257	B	C	6C
R4258	A	C	6C
R4259	B	C	6C
R4262	A	C	6C
R4501	B	C	6B
R4502	B	C	6B
R4503	B	C	6B
R4504	B	C	6B
R4505	B	C	6B
R4507	B	C	7B
R4508	B	C	6B
R4509	B	C	6B
R4510	B	C	6B
R4511	A	C	6B
R4512	A	C	6C
R4513	A	C	7B
R4514	B	C	6B
R4515	B	C	6B
R4516	A	C	6C
R4701	A	C	5B
R4702	A	C	6B
R4703	A	C	5B
R4704	A	C	5B
R4706	B	C	1B
R4707	A	C	6C
R4708	A	C	6C
R4709	A	C	6C
R4710	A	C	5C
R4712	B	C	1A
R4713	B	C	1B
R5201	B	C	6A
R5202	A	C	6A
R5211	B	C	6A
R5213	B	C	7A
R5214	B	C	7A
R5215	A	C	6A
R5216	B	C	6A
R5217	B	C	6A
R5301	A	C	?D
R5302	A	C	1D
R5304	A	C	?D
R6001	B	C	2B
R6002	B	C	2B
R6003	A	C	2C
R6004	A	C	2C
R6005	A	C	2C
R6008	B	C	3C
R6012	B	C	2D
R6015	B	C	3B
R6021	B	C	2D
R6024	A	C	2D
R6025	B	C	3C
R6026	B	C	3C
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R6028	B	C	3C
R6029	B	C	3B
R6030	A	C	2C
R6031	A	C	2C
R6032	A	C	2D
R6033	A	C	2C
R6034	A	C	2C
R6035	A	C	2C
R6036	A	C	2C
R6037	A	C	2C
R6103	A	C	3C
R6104	A	C	3C
R6105	A	C	3C
R6203	A	C	3C
R6204	A	C	3C
R6303	A	C	3C
R6304	A	C	3C
R6305	A	C	3C
R6306	B	C	7D
R6307	B	C	6D
R6401	B	C	3D
R6402	B	C	3D
R6501	B	C	3D
R6502	B	C	3D
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R6606	A	C	3C
R6607	B	C	2C
R6608	B	C	2C
R6609	B	C	2C
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R6611	B	C	2C
R6612	B	C	2C
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R6614	A	C	3C
R6616	A	C	2C
R6622	B	C	2D
R6623	B	C	2D
R6624	B	C	2C
R6625	B	C	2D
R6626	B	C	2C
R6627	B	C	2C
R6702	A	C	3D
R6703	B	C	3D
R6704	B	C	3D
R6705	B	C	3D
R6706	B	C	2D
R6707	B	C	3D
R6708	B	C	3D
R6709	B	C	3D
R6710	B	C	2B
R6711	B	C	2B
R6712	B	C	2D
R6713	B	C	2B
R6714	B	C	3B
R6715	B	C	3D
R6801	B	C	2D
R6802	B	C	2D
R6803	B	C	2D
R6811	A	C	2D
R6812	A	C	2D
R6961	B	C	3C
R7061	B	C	6D
R7062	B	C	6D
R7077	A	C	6C
R7083	A	C	6C
R7085	A	C	5D
R7086	A	C	5D
R7088	A	C	5D
R7090	A	C	5D
R7091	A	C	5D
R7093	A	C	5D
R7095	A	C	5D
R7096	A	C	5D
R7098	A	C	5D
R7099	A	C	5D
R7100	A	C	5D
R7101	A	C	5D
R7102	B	C	6C
R7103	B	C	6D
R7110	A	C	6C
R7112	A	C	5C
R7114	A	C	5D
R7116	A	C	5C
R7118	A	C	5D
R7120	A	C	5C
R7122	A	C	5D
R7123	A	C	6C
R7124	A	C	6C
R7127	A	C	5C
R7128	B	C	6C
R7129	A	C	5C
R7130	B	C	6C
R7131	A	C	5C
R7132	B	C	7C
R7134	B	C	7D
R7135	B	C	7D
R7141	A	C	6C
R7301	B	C	2A
R7302	B	C	2A
R7303	B	C	2A
R7304	B	C	2A
R7305	B	C	2A
R7306	B	C	2A
R7307	B	C	2A
R7308	B	C	2A
R7309	A	C	2A
R7312	B	C	2A
R7313	B	C	2A
R7315	B	C	1A
R7316	B	C	1A
R7317	B	C	1A
R7318	B	C	1A
R7319	B	C	1A
R7320	B	C	1A
R7321	B	C	1A
R7322	B	C	1A
R7324	B	C	2A
R7325	B	C	2A
R7326	B	C	3A
R7327	B	C	2A
R7329	B	C	3A
R7330	A	C	3A
R7331	A	C	3A
R7332	A	C	3A
R7333	A	C	2A
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R7335	B	C	2A
R7336	A	C	2A
R7337	A	C	2A
R7338	A	C	2A
R7339	A	C	2A
R8001	B	C	1C
R8002	B	C	1C
R8003	B	C	1C
R9001	B	C	7C
R9002	B	C	7C
R9003	B	C	7C
R9004	B	C	7C
R9005	B	C	7C
R9006	B	C	7C
R9101	B	C	6C
R9102	A	C	6C
R9103	A	C	6C
R9201	A	C	3A
R9202	A	C	3A
R9203	A	C	3A
R9204	A	C	3A
R9205	A	C	3A
R9206	A	C	3A
R9207	A	C	4A
R9208	A	C	3A
R9209	A	C	3A
RA101	B	C	3C
RA102	B	C	3B
RA103	A	C	2B
RA104	A	C	2B
RA105	B	C	3C
RA106	A	C	4A
RA107	A	C	2A
RA108	A	C	3A
RA109	A	C	3A
RA110	A	C	2A
RA111	A	C	2B
RA112	B	C	2B
RA6020	B	C	2C
TEST POINT			
TP101	A	C	3B
TP102	A	C	3B
TP6001	A	C	2C
TP9001	B	C	7A
OTHER			
J101	A	D	5D
J504	A	D	1B
J505	A	D	1A
JP2001	B	C	6A
JP2002	B	C	6A
JP2003	B	C	5D
JP2004	B	C	5D
JP3501	A	C	4D
TL1601	A	C	6D
TL1602	A	C	7D
TL1603	A	C	7D
TL1606	B	C	5D
TL1607	B	C	5D
TL1608	B	C	6D
TM2	A	C	?A
TM5	A	C	7A
TM6	A	C	7A
X101	A	C	3B
X102	B	C	3A
X4001	A	D	6B
ZP4-1	A	C	6D
ZP4-2	A	C	7D
ZP6-1	B	C	7D
ZP6-2	B	C	6D
ZP8-1	A	C	5D
ZP8-2	A	C	5D
ZP12-1	A	C	2B
ZP12-3	A	C	2A
ZP13-1	A	C	2B
ZP13-2	A	C	2C
ZP13-5	A	C	3A
ZP13-6	A	C	3A
ZP13-7	A	C	3A
ZP16-3	B	C	7D
ZP16-7	A	C	3C
ZP16-9	B	C	2D
ZP18-3	A	C	5A
ZP27-1	A	C	5B
ZP27-2	A	C	5C
ZP28-1	A	C	1D
ZP28-5	A	C	1D
ZP101-1	B	C	3A
ZP101-2	A	C	5D
ZP13-10	A	C	4A
ZP13-14	A	C	2B
ZP16-12	A	C	2C
ZP16-25	B	C	7C
ZP18-12	A	C	3A
ZP25-10	A	C	3C
ZP25-11	B	C	1B
ZP25-18	A	C	4C
ZP28-11	B	C	1C
ZP33-14	A	C	3A
ZP33-16	A	C	3A
ZP504-1	B	C	1B
ZP504-3	B	C	1B
ZP504-4	B	C	1B
ZP505-1	B	C	1C
ZP505-2	B	C	1B
ZP505-3	B	C	1A
ZP505-4	B	C	1B

02 CCD

01 MAIN

OPTICAL BLOCK

IC5301

CCD IMAGE SENSOR

Q5301 BUF

CN5301

CCD_OUT

CN22

IC5201 (TG/CDS)

(CDS/AGC/AD)

CDSIN CDS BLKSH BLKFB DC OFFSET T. G

PGA A/D CONV LATCH

D9 D8 D7 D6 D5 D4 D3 D2 D1 D0 ADCLK

AD9 AD8 AD7 AD6 AD5 AD4 AD3 AD2 AD1 AD0

R5202 C5212 C5213

SERIAL INTERFACE

OBP SPBLK SPSIG PBLK SDATA SCK CS

ADCIN

V_PB_C

IC4001(DSP)

(DSP)

OB CLAMP

IH DL

V/H APT CTL

Y/C SEPA (3LINE)

RGB SEPA

PROCESS WB G CTL MATRIX

DSP CONTROL INTER FACE

CDS_CLK TG_CLK CAM_ADCK

AD1_CK CAMCK CLKI CAMADCK

HDTG VDTG LHFO ID PBLK CLKCPU

SUB V1 V2 V3 V4 H2 H1

OBCP SHP SHD PBLK

S03 SCK3

CDS_CS SCK3 SO3

IC5202(TG/CDS)

OBCLP XSHP XSHD PBLK SS SSK

(TG/V_DRIVER)

H1 H2 V4 V3 V2 V1 SUB

CK CLDCLK AHD VHD VGAT ID SEN DSGAT RST

REG_3.2V C5222 R5215

IC101(CPU)

V_DSP_CS V_PULSE

CLKOUT CDS_CS CCD_CS DSGAT

AD0 AD1 AD2 AD3 AD4 AD5 AD6 AD7 AD8 AD9 AD10 AD11 AD12 AD13 AD14 AD15

R/W(L) ASTB DSTB(L) OMT WAIT(L) V_FF VDVHS FRP HD VD FI

STD SDCK SLD ADDV HDMASK BUS0 BUS15 DATA SET

R/W_L ASTB DSTB_L OMT WAIT_L V_FF VDVHS CFM HD_H VD_H FI

RW ASTB DSTB OMT BUSY SW30 VREF0 FRP HDCPU VDCPU FLDCPU

INTERFACE

CLR

OSD_CLK OSD_CS OSD_DATA DSP_REST

X101 MAIN SYSTEM CLOCK (16MHz)

TXD RXD RXD

DSP_REST

IC4002 (DSP)

TMC0 TMC3 TMY0 TMY7 IE FMWE WAD FMC0 FMC3 FMY0 FMY7 MCLK RAE RAD FMRE

DIN8(CIN0) DIN11(CIN3) DIN0(YIN0) DIN7(YIN7) IE WE RSTW SWCK D8(COUT0) D11(COUT3) D00(YOUT0) D07(YOUT7) SRCK OE RSTR RE

(MEMORY)

WRITE BUFFER WRITE RESISTOR MEMORY CELL ARRAY

DOUT BUFFER READ RESISTOR

IC4003(DSP)

(OSD)

BLK1 BLK2 VBLK VB VG VR VC1 VC2 CLKOSD

BLK_1 BLK_2 VBLK VB VG VR VC_1 VC_2 CLKOSD

PCL DATA CS CLK

OSD I/F

IC4501(F/Z/I/MDA)

BRIDGE DRIVER

PULSE GENERATOR

SERIAL-PARARELLE DECODER

OSCIN VD SCLK SDATA LATCH RESET

TO DSP VDVHS

LENS_CLK LENS_CS

FOCUS3 FOCUS1 FOCUS4 FOCUS2 ZOOM2 ZOOM4 ZOOM3 ZOOM1

FOCUS_SENS ZOOM_SENS LENS_MDA_CLK SCK3 SO3 LENS_MDA_CS DSP_RST

IC4201,IC4202 (F/Z/I/MDA)

HALL AMP MOTOR DRIVE AMP

IRIS_O/C HOLE IRIS_PWM

R4209.C4206 LPF (COMP)

REG 4.8V Q4251 R4262 C4256 IC4201 AMP

IR_FLICK IR_DC

WHITE BALANCE SENSOR

JIG_CONN. CN25 RXD TXD

CN15 F_SENS Z_SENS

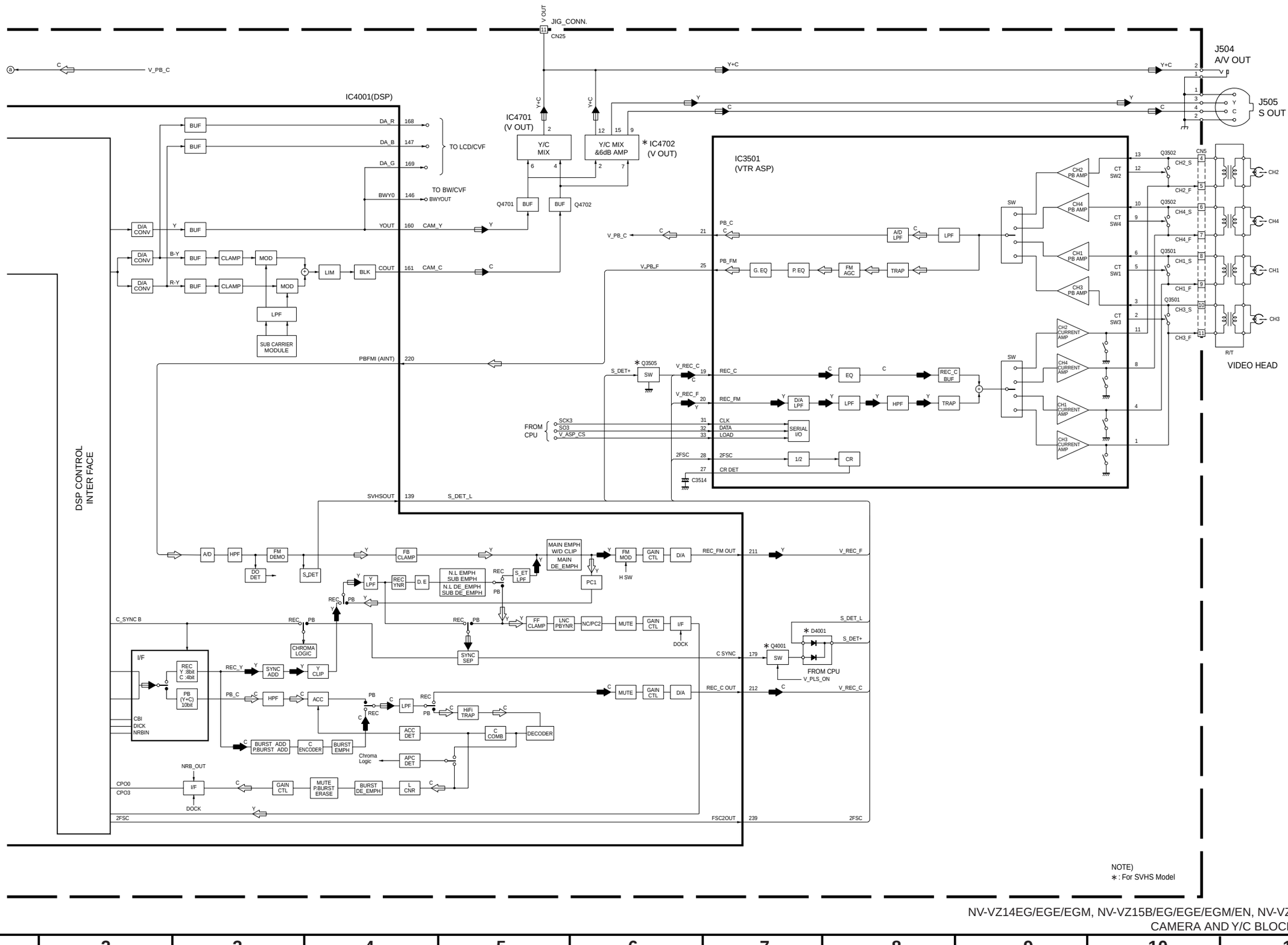
CN5301 SUB V1 V2 V3 V4 H2 H1 CN22

HE_IN+ HE_OUT- HE_IN- HE_OUT+ DUMP- DRIVE+ DUMP+

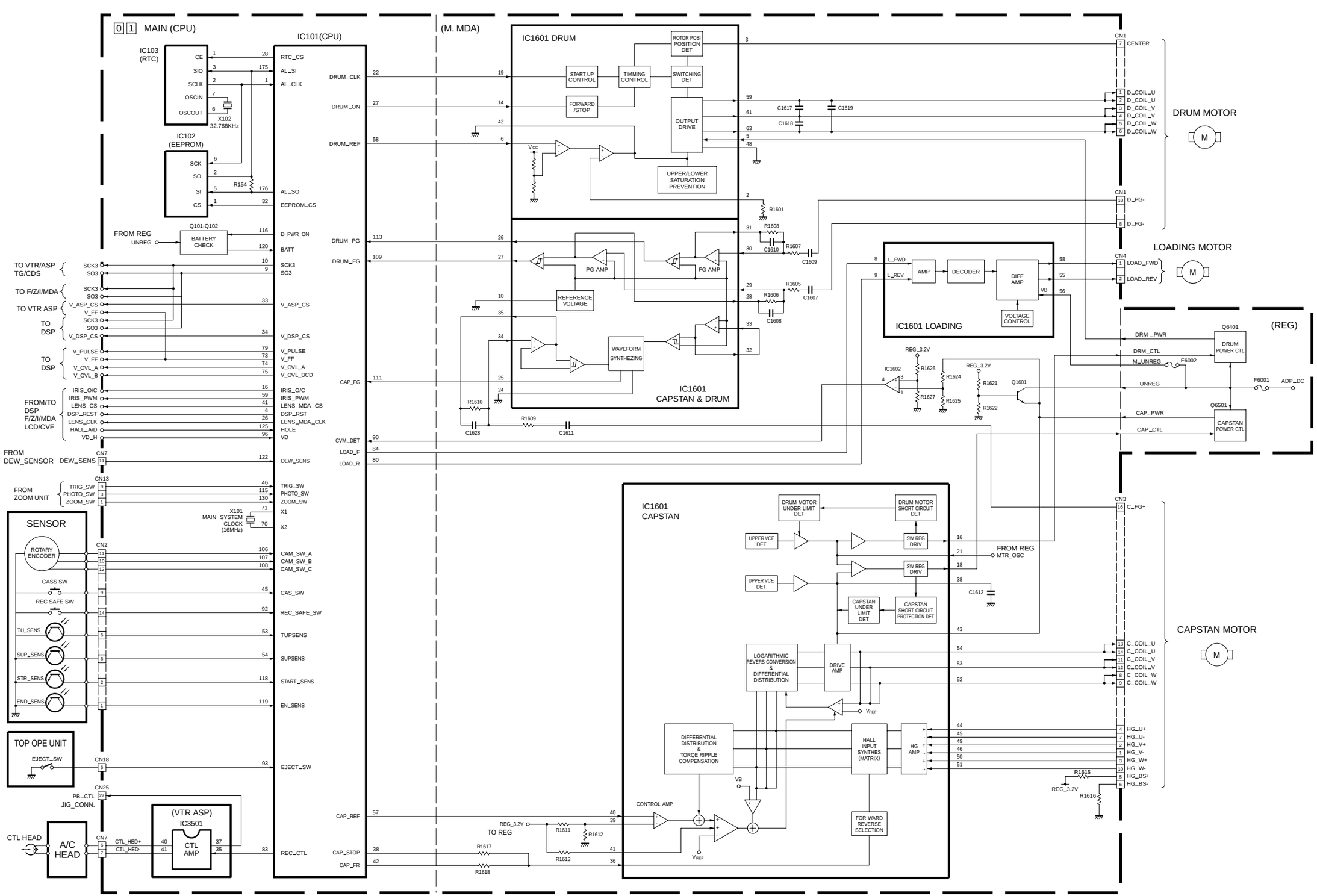
NV-VZ14EG/EGE/EGM, NV-VZ15B/EG/EGE/EGM/EN, NV-VZ55EG/EGM
CAMERA AND Y/C BLOCK DIAGRAM

G F E D C B A

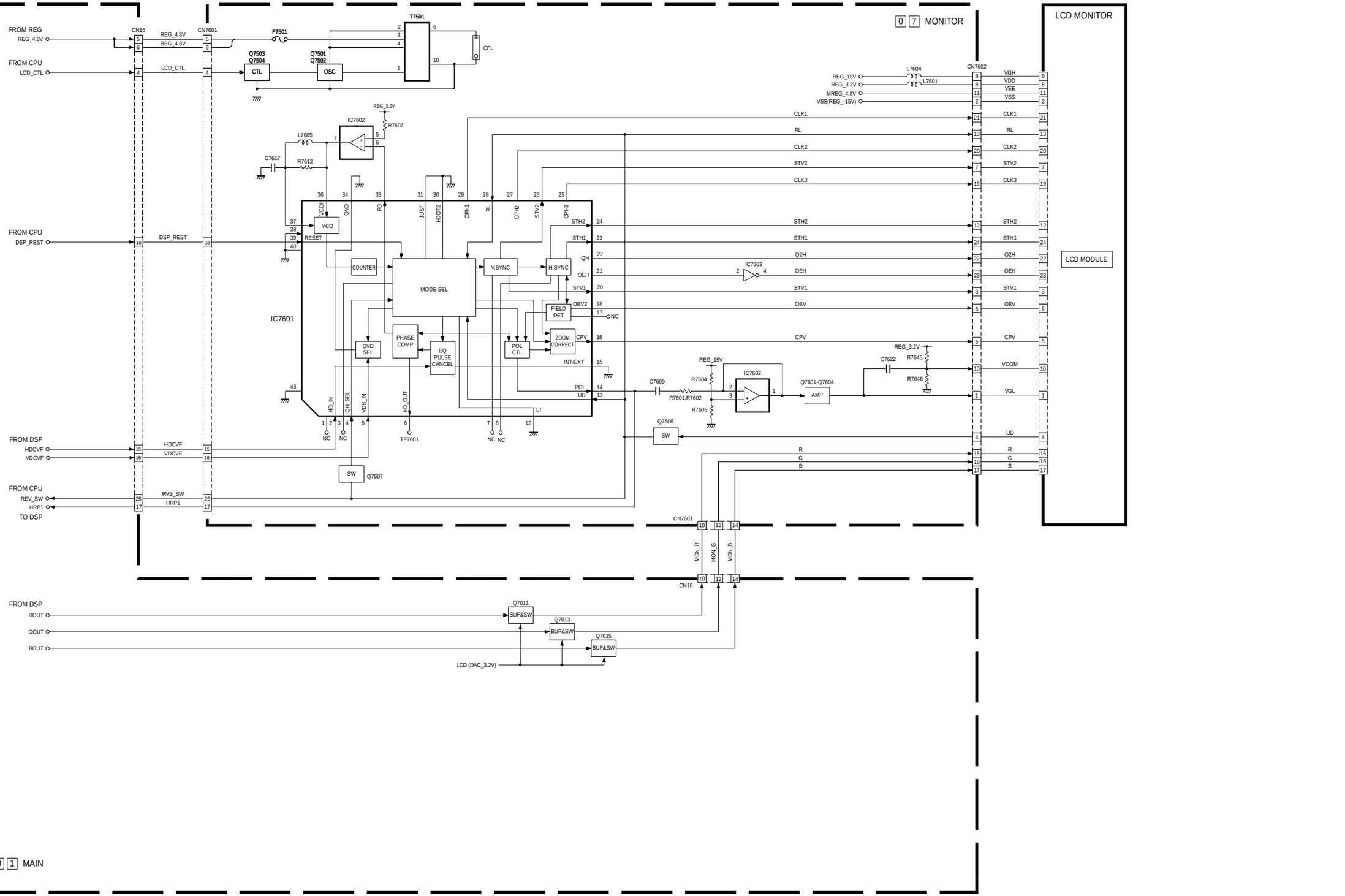
1 2 3 4 5 6 7 8 9 10 11



NV-VZ14EG/EGE/EGM, NV-VZ15B/EG/EGE/EGM/EN, NV-VZ55EG/EGM
CAMERA AND Y/C BLOCK DIAGRAM



NV-VZ14EG/EGE/EGM, NV-VZ15B/EG/EGE/EGM/EN, NV-VZ55EG/EGM
CPU/MDA BLOCK DIAGRAM



NV-VZ14EG/EGE/EGM, NV-VZ15B/EG/EGE/EGM/EN, NV-VZ55EG/EGM
MONITOR SYSTEM BLOCK DIAGRAM

REAR UNIT

BATT. TERM

BATT_+
BATT_+
ADP_DC
ADP_DC
ADP_H

CN28

ADP_H

0 1 MAIN

REG SECTION

UNREG
F6001
L6002
L6001
IC6001-6.39PIN

Q6401 DRUM POWER
DRM_CTL
DRM_PWR

Q6501 CAP POWER
CAP_CTL
CAP_PWR
UNREG
F6002
M_UNREG

Q6101 REG 3.2V
R6103
AREG_SO
POWER CTL
IC6001
REG_3.2V

Q6201 REG 2V
R6203
AREG_SO
POWER CTL
IC6001
REG_2V
Z_REG_4.8V
F6004
ZF_REG_4.8V

Q6301 REG 4.8V
R6303
AREG_SO
POWER CTL
IC6001
REG_4.8V

REG 3.2V
IC6801
AL_3.2V

Q6701 CHARGE CTL
C6602
D6601
AREG_SO
POWER CTL
IC6001
REG_15V

C6607
D6602
REG_-15V

R6616
D6616
REG-8-5V

LAMP_4.5V
LAMP_RTN

Q6306 ES
LAMP_ON

AL_3.2V

CPU SECTION

EEP ROM IC102
2.7V RESET IC104
SW IC105
RTC IC103
D101
J101 LITHIUM
REG_4.8V

IC101 CPU
ADP_H
AREG_SO
REG_3.2V

JIG CONN.
CN25
AL_3.2V
VPP_7.8V
VPP_7.8V

M. MDA SECTION

DRM_PWR
CAP_PWR
UNREG
M_UNREG
REG_3.2V

SPEAKER SECTION
REG_3.2V
SPK+
SPK-

VTR ASP SECTION
REG_3.2V
REG_4.8V

DSP SECTION
REG_2V
REG_3.2V
DAC_3.2V
L4001

V OUT SECTION
REG_4.8V
DAC_3.2V
L4701

DAC_3.2V

TG/CDS SECTION
REG_3.2V
L5201
REG_15V
L5203
REG-8-5V
L5202
CCD_HV
CCD_LV

F/Z/I/MDA SECTION
REG_4.8V
ZF_REG_4.8V
L4502
REG_3.2V
Z_REG_4.8V

LCD/CVF SECTION
DAC_3.2V
REG_4.8V
REG_15V
REG_-15V
REG_3.2V
L7006
L7005

BW/CVF SECTION
REG_4.8V
F7301
L7304
VF_BL4.8

REG_15V
REG_3.2V
MREG_4.8
VSS
REG_4.8V

DC LIGHT
CN6
LAMP_4.5V
LAMP_RTN
ONLY FOR MODEL WITH DC LIGHT

TOP OPE UNIT
REG_3.2V
AL_3.2V

CN18
CN13

CAPSTAN MOTOR
CN3
CAPMR_BS
M

CN7
TO A/C HEAD
REG_4.8V

SPEAKER

CN27

0 2 CCD
CCD_HV
CCD_LV

CN22
CCD_HV
CCD_LV

0 7 MONITOR
CN16
REG_4.8V
REG_4.8V
CN7601
REG_4.8V
(HV)
F7501
HV
HV
(BL)

(MONI_LCD)
CN7602
MREG_4.8
VSS
REG_15V
REG_3.2V
L7604
VEE
VSS
VGH
VDD

CN15
OP_VCC
OP BLOCK

E. V. F
VF_BL4.8

CN12
VF_BL4.8

ZOOM UNIT
REG_3.2V

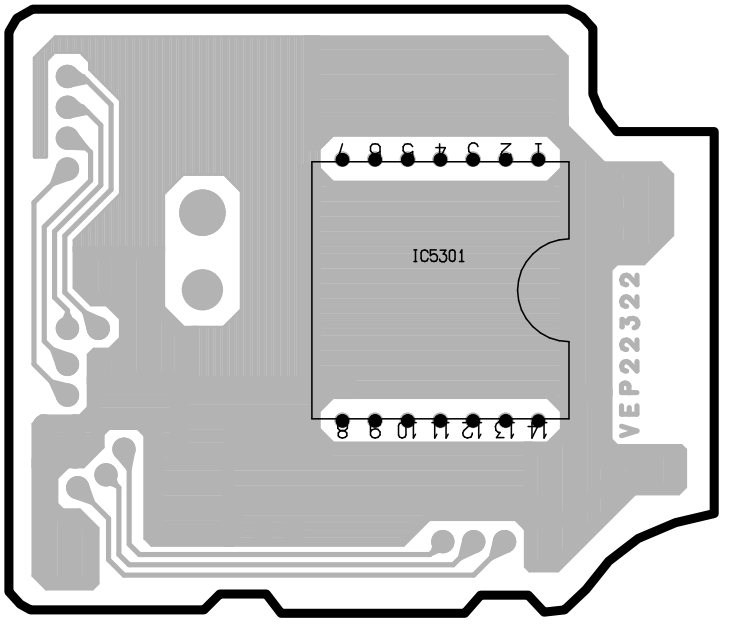
NV-VZ14EG/EGE/EGM, NV-VZ15B/EG/EGE/EGM/EN, NV-VZ55EG/EGM
POWER SYSTEM BLOCK DIAGRAM

G F E D C B A

1 2 3 4 5 6 7 8 9 10 11

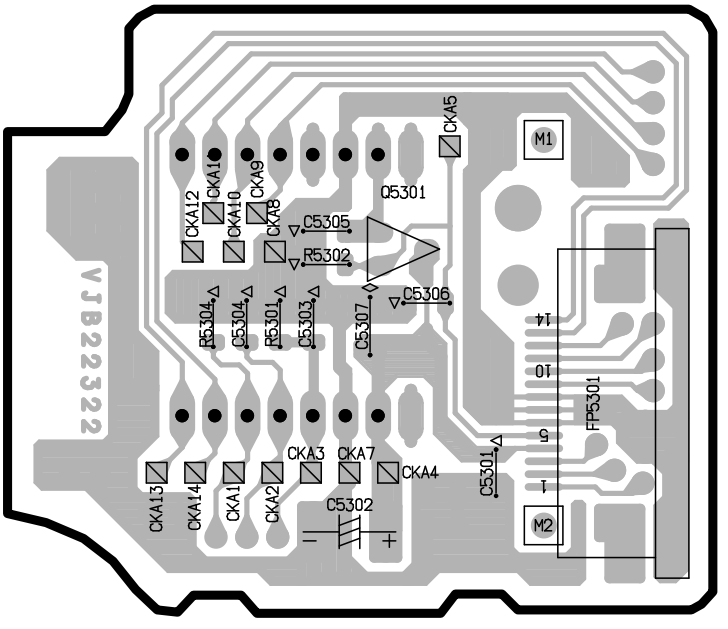
02 CCD

FOIL SIDE(B)

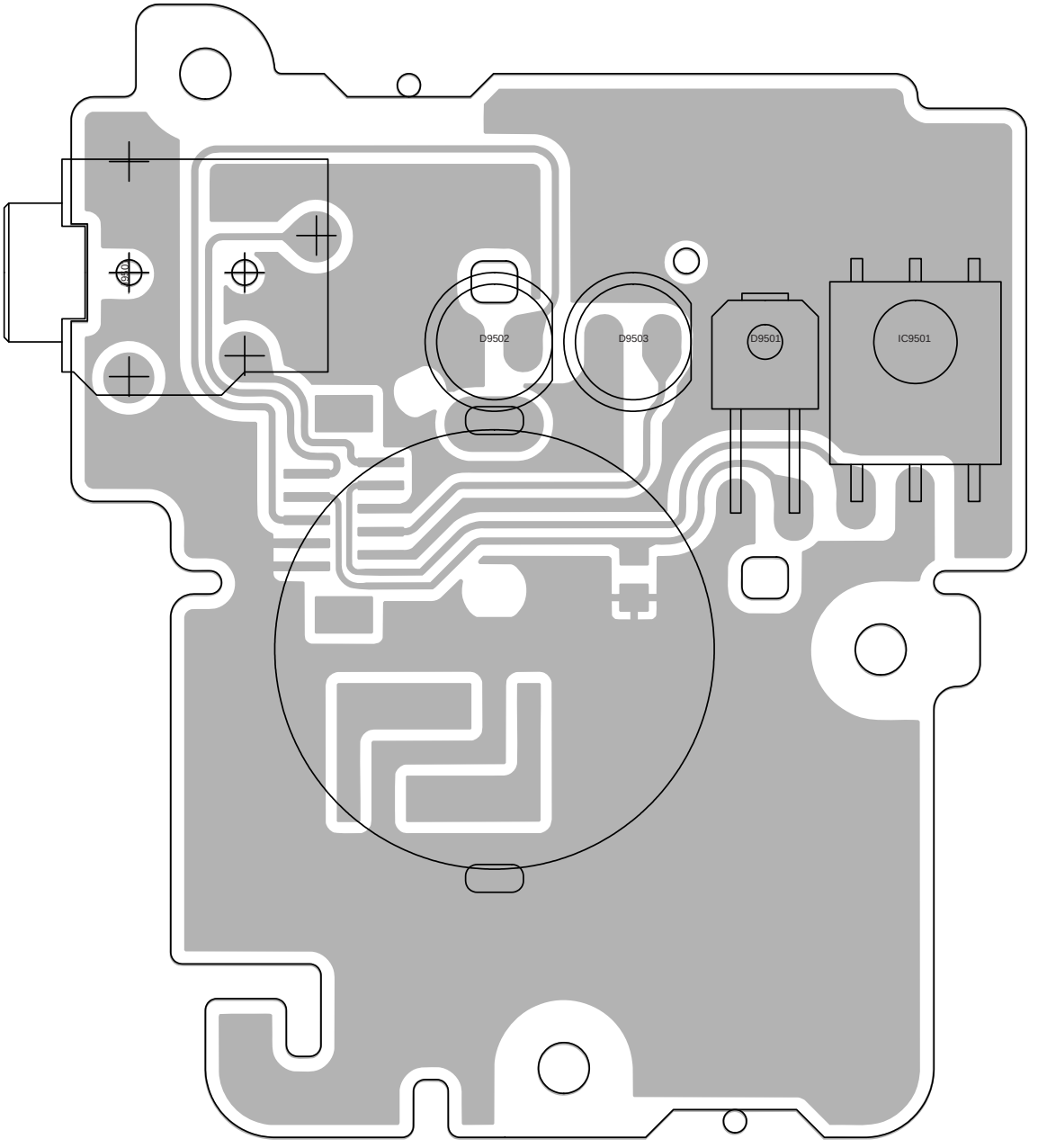


COMPONENT SIDE(A)

02 CCD



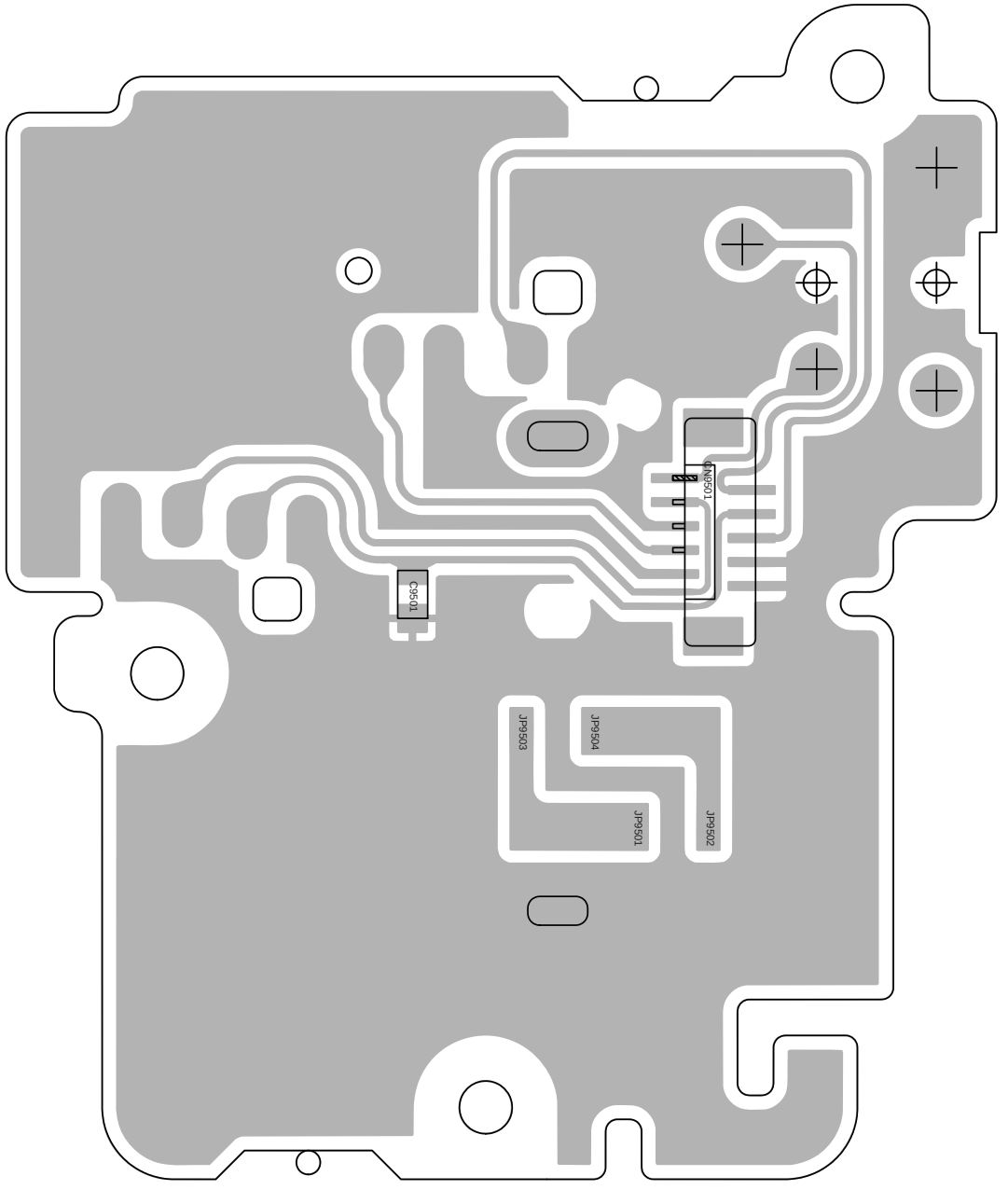
03 FRONT PWB COMPONENT SIDE(A)



NV-VZ14EG/EGE/EGM, NV-VZ15B/EG/EGE/EGM/EN, NV-VZ55EG/EGM
FRONT C.B.A.

03 FRONT PWB

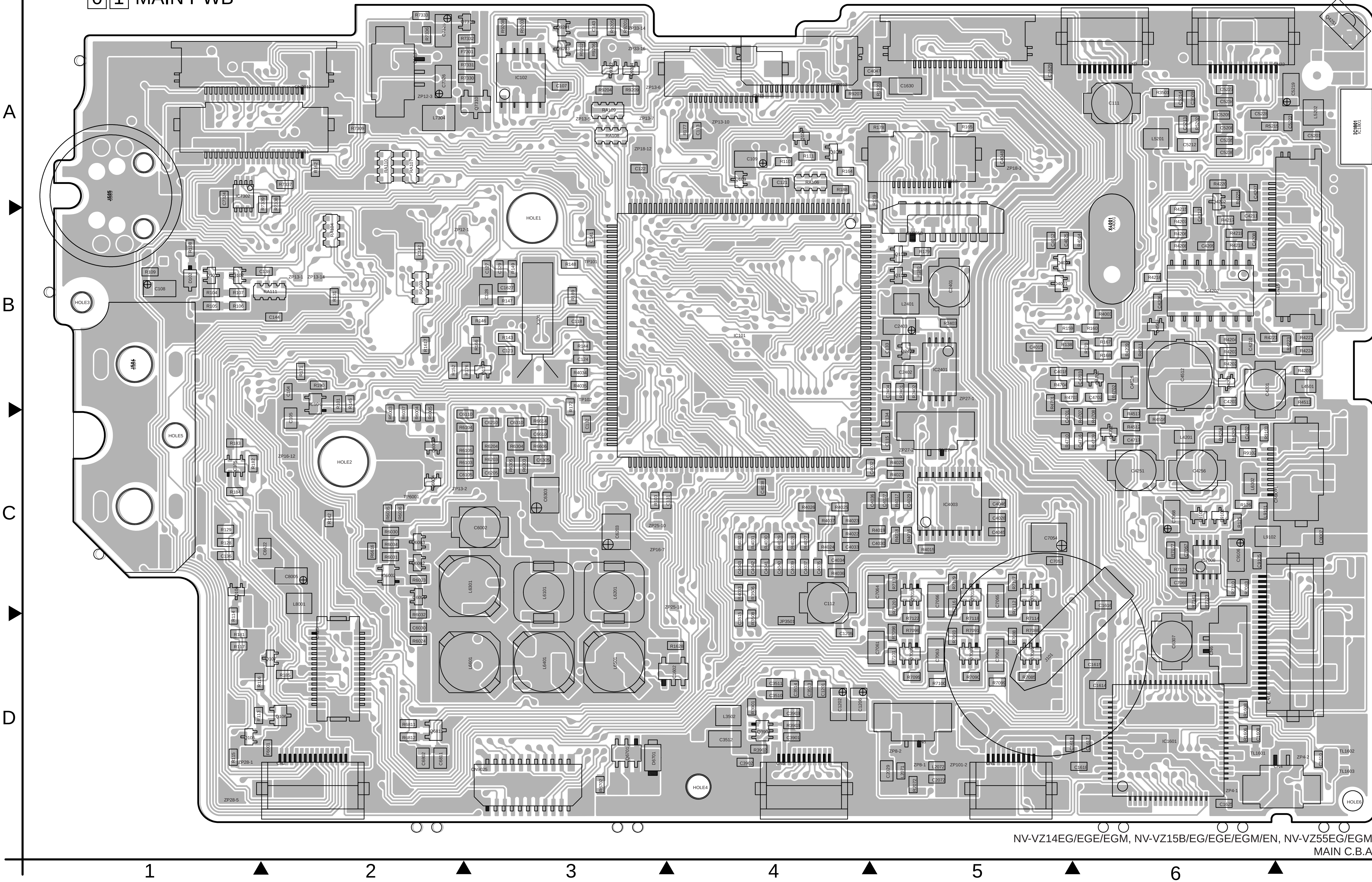
FOIL SIDE(B)



NV-VZ14EG/EGE/EGM, NV-VZ15B/EG/EGE/EGM/EN, NV-VZ55EG/EGM
FRONT C.B.A.

0 1 MAIN PWB

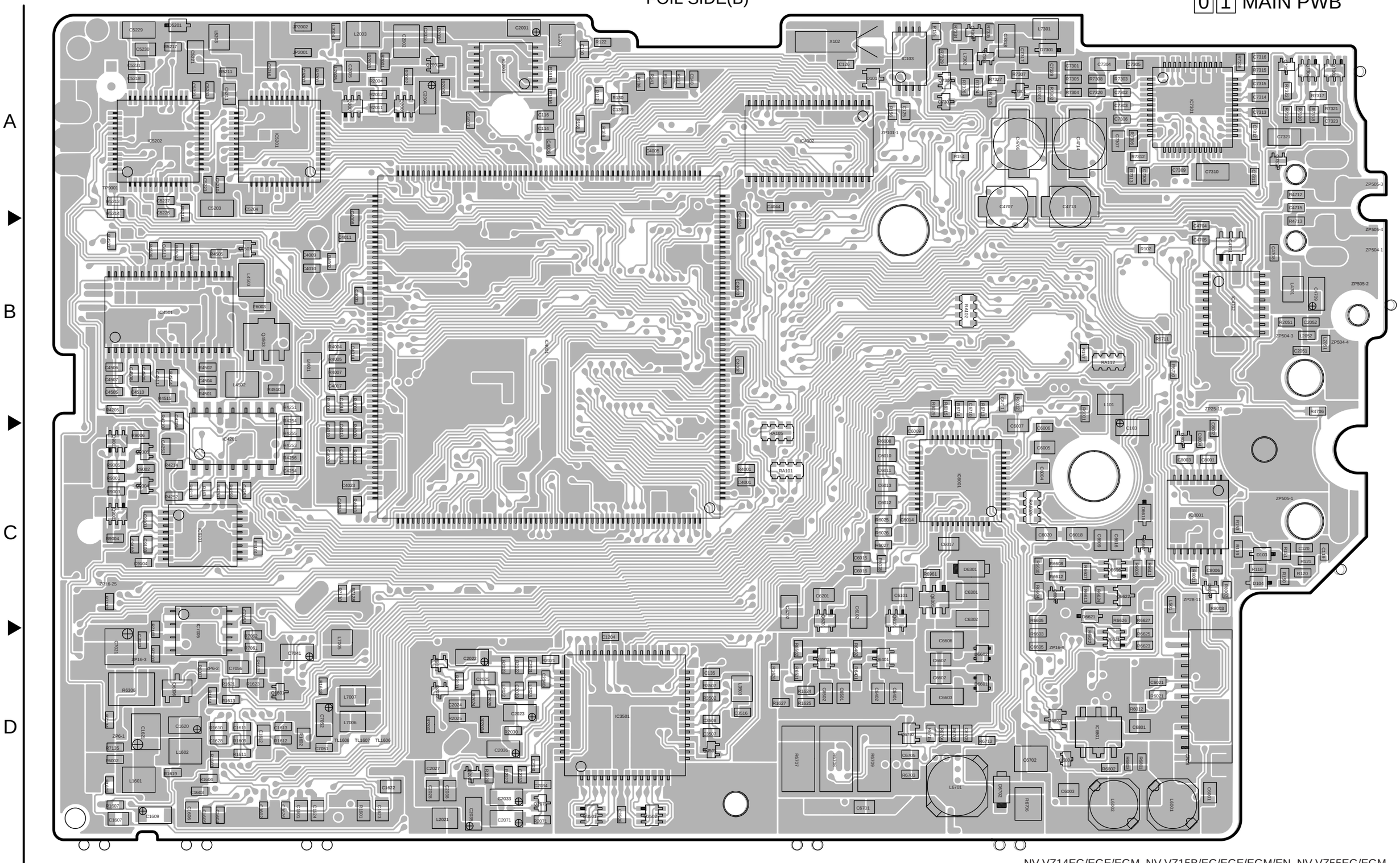
COMPONENT SIDE(A)


A
B
C
D
1
2
3
4
5
6
J505
J504
HOLE1
HOLE2
HOLE3
HOLE4
HOLE5
HOLE6
IC101
IC102
IC104
IC7302
IC2401
IC4003
IC4202
IC1601
IC1801
IC6002
IC7008
X101
X4001
CN9012
CN11
CN13
CN9013
CN3
CN7
CN22
CN18
CN9018
CN27
CN15
CN9031
CN16
CN6
CN4
CN1
CN5
CN8
CN2
CN25
CN9025
J101
C111
C112
C2401
C4512
C4201
C4251
C4256
C6307
C6002
L6301
L6101
L6201
L6601
L6401
L6501
L8001
L2401
L5201
L5202
L4201
L4501
L9102
L6302
L3502
Q4251
TP101
TP102
TP6001
TL1601
TL1602
TL1603

NV-VZ14EG/EGE/EGM, NV-VZ15B/EG/EGE/EGM/EN, NV-VZ55EG/EGM
MAIN C.B.A

FOIL SIDE(B)

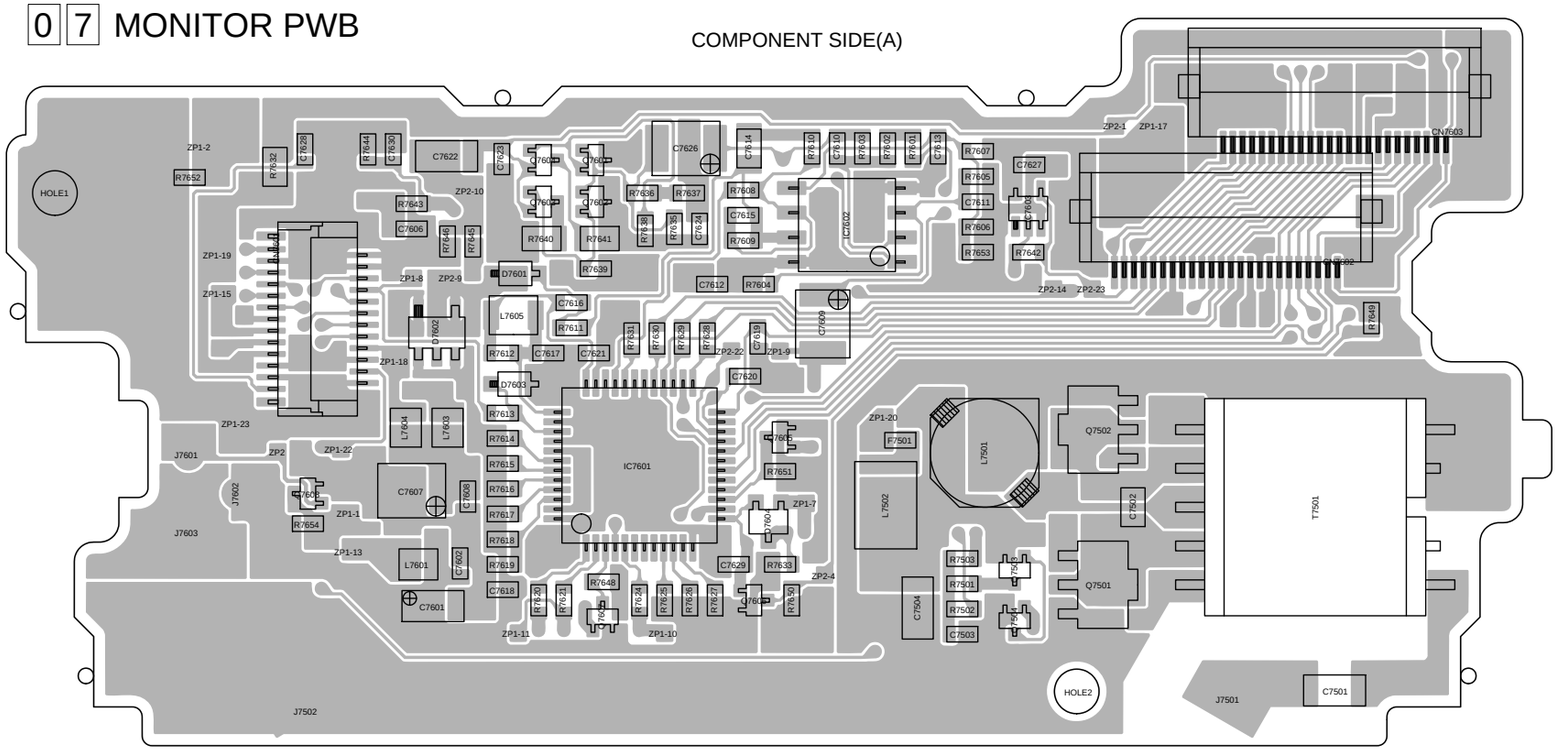
01 MAIN PWB



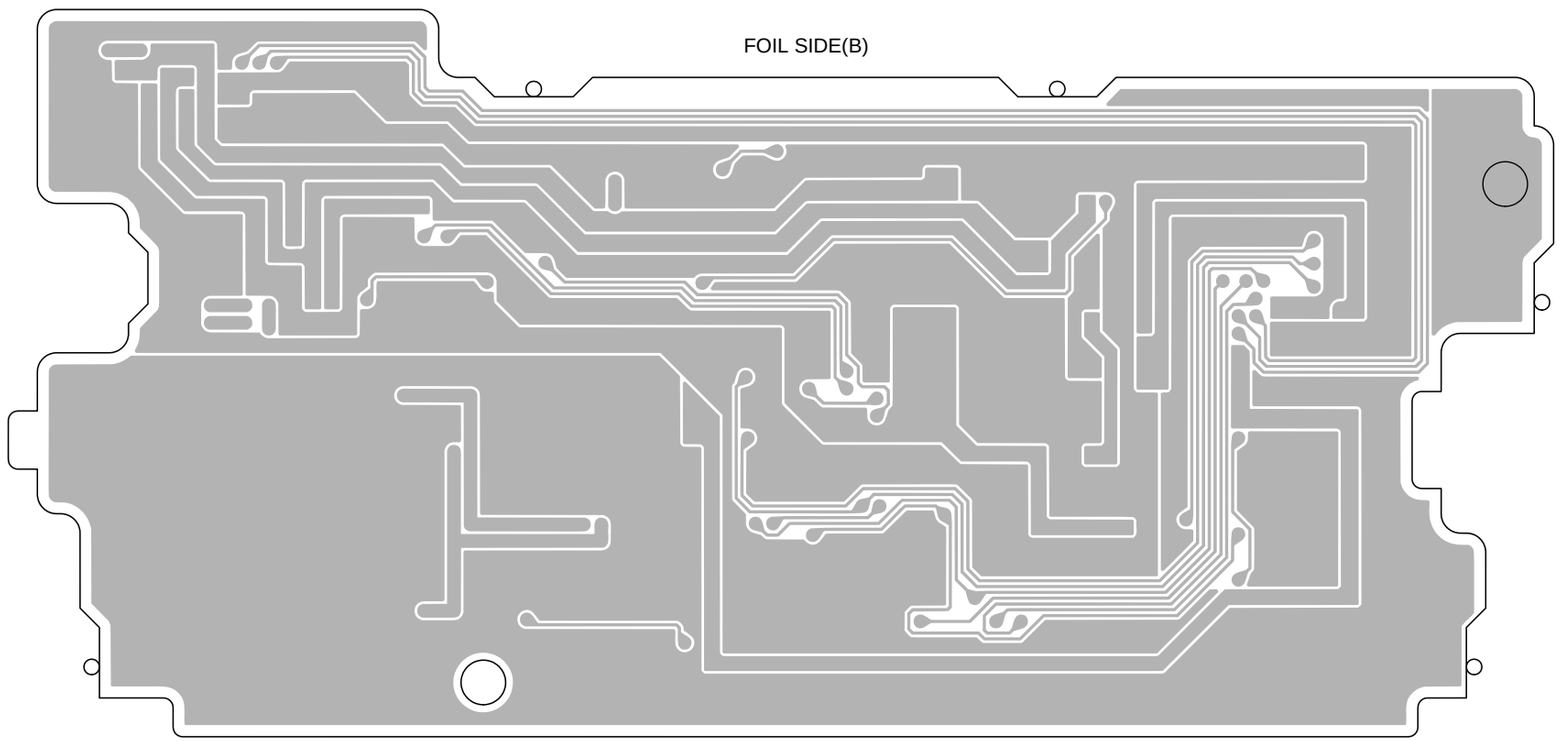
NV-VZ14EG/EGE/EGM, NV-VZ15B/EG/EGE/EGM/EN, NV-VZ55EG/EGM
MAIN C.B.A

07 MONITOR PWB

COMPONENT SIDE(A)



FOIL SIDE(B)



COMPONENT PARTS LOCATION GUIDE

CAPASITOR		FUSE		R7611	3F	OTHER	
C7501	7D	F7501	5F	R7612	3F	J7501	6D
C7502	6E	IC		R7613	3F	J7502	2D
C7503	5E	IC7601	4F	R7614	3F	J7601	2F
C7504	5E	IC7602	5G	R7615	3E	J7602	2E
C7601	3E	IC7603	5G	R7616	3E	J7603	2E
C7602	3E	COIL		R7617	3E	T7501	7E
C7606	3G	L7501	5F	R7618	3E	ZP1-1	2E
C7607	3E	L7502	5E	R7619	3E	ZP1-10	4E
C7608	3E	L7601	3E	R7620	3E	ZP1-11	3E
C7609	2E	L7603	3F	R7621	3E	ZP1-13	2E
C7609	4F	L7604	3F	R7624	4E	ZP1-15	2F
C7610	5G	L7605	3F	R7625	4E	ZP1-17	6G
C7611	5G	TRANSISTOR		R7626	4E	ZP1-18	2F
C7612	4F	Q7501	6E	R7627	4E	ZP1-19	2F
C7613	5G	Q7502	6F	R7628	4F	ZP1-2	2G
C7614	4G	Q7503	5E	R7629	4F	ZP1-20	5F
C7615	4G	Q7504	5E	R7630	4F	ZP1-22	2F
C7616	3F	Q7601	3G	R7631	4F	ZP1-23	2F
C7617	3F	Q7602	3G	R7632	2G	ZP1-7	4E
C7618	3E	Q7603	3G	R7633	4E	ZP1-8	3F
C7619	4F	Q7604	4E	R7635	4G	ZP1-9	4F
C7620	4F	Q7604	3G	R7636	4G	ZP2	2F
C7621	3F	Q7605	4F	R7637	4G	ZP2-1	6G
C7622	3G	Q7606	4E	R7638	4G	ZP2-10	3G
C7623	3G	Q7609	3E	R7639	3F	ZP2-14	5F
C7624	4G	RESISTOR		R7640	3G	ZP2-22	4F
C7626	4G	R7501	5E	R7641	3G	ZP2-23	6F
C7627	5G	R7502	5E	R7642	5F	ZP2-4	4E
C7628	2G	R7503	5E	R7643	3G	ZP2-9	3F
C7629	4E	R7601	5G	R7644	2G		
C7630	2G	R7602	5G	R7645	3G		
CONNECTOR		R7603	5G	R7646	3G		
CN7601	2F	R7604	4F	R7648	3E		
CN7602	7F	R7605	5G	R7649	7F		
CN7603	7G	R7606	5G	R7650	4E		
DIODE		R7607	5G	R7651	4E		
D7601	3F	R7608	4G	R7652	2G		
D7602	3F	R7609	4G	R7653	5F		
D7603	3F	R7610	4G	R7654	2E		

LCD PANEL
CN7502
07 MONITOR BL PWB
CN7601
B/W VF
CN11 (Not used)
CN9012
CN16
(Not used)
BW_VF_Y
GND
VF_BL4.8
(Not used)
CN9025 JIG_CONN.
CN22
02 CCD
LENS BLOCK
CN15
LCD/ CVF
BW/CVF
DSP(VTR/CAM)
TG_CDS
F/Z/IRIS
REAR_UNIT
CN28
BATT_TERM
DC_IN
REG
VTR ASP
LITHIUM
CPU
0LUX
(Not used)
(Not used)
V_OUT
SPEAKER
JACK/DSC
MDA
01 MAIN PWB
CN8
MIC
CN27
SPEAKER
CN6
JOYC_LAMP
CN4
CN5
CN7
CN1
CN3
CN2
LOADING MOTOR
FLY.E HEAD
VIDEO HEAD
A/C HEAD
DRUM_MOTOR
CAPSTAN MOTOR
MECHA
SENSOR PWB
CN9031 TO FRONT
CN9501
03 FRONT PWB
RS232C
MIC
CN9018 TO OPE1
CN9013 TO OPE2

NV-VZ14EG/EGE/EGM, NV-VZ15B/EG/EGE/EGM/EN, NV-VZ55EG/EGM
BOARD INTERCONNECTIONS